PROFESSIONAL VIDEO TECHNOLOGY

www.eneo-security.com

eneo®

VIDEOR TECHN

Videor Technical E. Hartig GmbH – Partnership, Service, Experience

Founded as a 2-man company in 1975, Videor Technical with its staff of 135 is now one of the leading distributors of professional Video Technology in Europe. The wide product range incorporates components and complete solutions from the Video Security, Video Networking and Video Professional sectors. For 30 years Videor Technical has symbolised competence, reliability and dedication, a combination that makes the unusual possible – even in unusual situations.

For us, distribution means considerably more than the mere procurement, storage and dispatch of products. Rather, the increasing complexity of products and the constantly changing market call for a partner who can do more for you.

ICAL

Competent product marketing
We offer you the right products at the right time – because not every technical advance on the market has been fully thought out. Our Product Marketing Department therefore tracks down only the real innovations for you and recommends only proven products for a market launch.

Simple ordering, fast delivery
We accept your order by any method you choose – whether you opt for fax, telephone, email or our website. Our high stock level ensures optimal availability, which allows orders received before noon to be shipped out on the same day. To improve our logistic service within the U.K. we have established a logistic centre in the Birmingham area.

Tested quality
Quality is more important than ever before in the CCTV market. We are not only certified compliant with DIN ISO 9001:2000, our high product quality is also guaranteed – by tests, inspections and supplier audits.

Technical consultation & support
Our technical specialists can answer all your questions before you opt for a product. Of course, you may also arrange for a personal meeting with your Area Manager. Difficulties with installation of your purchased product? Our Technical Support Team will be happy to assist you. And our own Service Team is ready to provide you with maintenance and repair support.

Extensive service
As a Videor Technical customer, you are always optimally provided with up to date information. In addition to our customer magazine VIEW, prospects and catalogues, you are able to keep your knowledge at the state of the art with our training courses and product presentations. Furthermore, in the Partner Area of our database-supported website, you can find information updated every day, track your orders, download images and even create your own datasheets and price lists showing your logo and company information – without any reference to Videor Technical at all. Who else offers you this service?

Highlights

Page 81

Zelaris_IP: The Management Software for network based Video Systems

New tasks confront operators when they use network-based video systems. Although practically all video systems offer a browser-based user interface for network applications, this interface can often only be used to a limited extent in security applications. Operation and display problems may occur, especially when different systems are used simultaneously. eneo now delivers Zelaris_IP, a new software solution used for management, control and recording of different systems on one screen.

Page 12

The new Star of our successful Candid Junior W3 Series: the VKC-1327IR/W3

The new star of our successful Candid Junior W3 series is the day/night camera VKC-1327IR/W3 with removable IR cut filter and varifocal lens. As is normal with the eneo Plug & Play systems, everything is preinstalled with the VKC-1327IR/W3 and the internal cabling is fully wired. In addition the camera is certified according to BGV Kassen. Excellent value for money makes this the perfect model.

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eneo MiniTrax Dome Camera closes the Gap to the big Ones

In its compact and vandalism-proof housing, the MiniTrax delivers clear pictures of incidents in very endangered areas. The 1/4” colour dome camera with a resolution of 430 TV lines boasts a remote controlled motor zoom lens with 10x optical and 10x digital zooms. The dome camera is the ideal choice for internal and external use, and in addition to the RS-485 serial interface it offers numerous features of its big brothers in the Fastrax Series.

Page 69

The new eneo DXR Recorders – now with up to 1000GB EIDE HDD

The eneo DXR Recorders bring interesting new features for professional digital recording. Recording Speeds of up to 100 fields/sec. (PAL) provide live video even in multi-channel operation. The DXR Recorders are available in versions with 9 or 16 inputs and optional with a built-in CD-RW drive. With storage capacity of up to 1000GB, recording long periods of time is no problem.

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Plug & Play Camera Systems

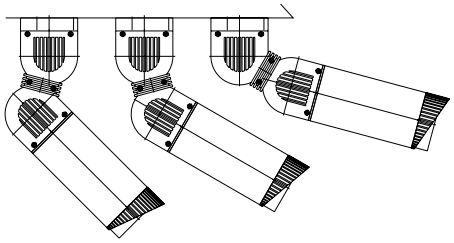
Plug & Play
CANDID Camera Systems

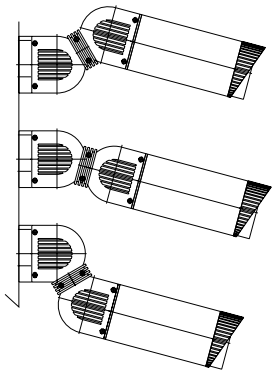
Flexible:
CANDID Junior with folding tube

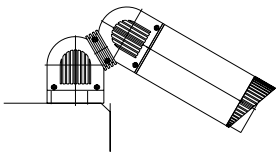
Compact: CANDID Junior with wall bracket

Functional Design:
CANDID with sunshield

Optical evaluation for all interior areas:
CANDID in the dust-protection version







Time Saved

Our successful CANDID and CANDID Junior series of housings are also available in timesaving Plug & Play versions. For all currently available camera types and voltages. The systems are ready to fit and fully wired. The camera and lens are attached to the mounting plate. The lens flange back length is preset and the interior wiring is fully fitted the wiring harness on the outside through the housing pedestal. The units have been cleanly and professionally finished by our Manufacturing Department. Saving you the hassle of doing it all yourself?

eneo CANDID C-04

1/3“ Colour Camera w. F1.0/3-8mm DC Lens, Candid Weatherproof Housing, 480TVL

- Colour Camera in Weatherproof Housing
- Resolution of 480 Horizontal Lines
- Digital Signal Processing (DSP)
- Back Light Compensation (BLC)
- Electronic Shutter Control (ESC)
- Integrated Eclipser Function
- Horizontal and Vertical Aperture correction (APC)
- High Sensitivity
- Lens: F1.0/3-8mm DC Controlled Iris
- Index of Protection: IP66/67

Art-No.: 96004

Fujitsu TCZ-920PV

1/4“ HiRes Colour Camera with Lens F2.0/2.8-5.8mm, VHP-2 Housing, 460TVL

- Colour Brd. Camera in Weatherproof Housing
- 1/4“ CCD Sensor Chip
- Resolution of 460 Horizontal Lines
- Electronic Shutter Control (ESC)
- Back Light Compensation (BLC)
- Automatic White Balance (AWB)
- Automatic Gain Control (AGC)
- Integrated Lens: F2.0/2.8-5.8mm
- Supply Voltage: 12VDC/24VAC
- Internal/Line-lock Synchronization
- Index of Protection: IP67
- Protected Pan and Tilt Fixing Mechanism

Art-No.: 96047

eneo VK-133/W1

1/3“ B&W Camera with 3.8mm lens in VHP-1 Housing with Wall Bracket WD-21, 420TVL

Art-No.: 96005

eneo VK-1317S/W1

1/3“ HiRes B&W Camera with 3.8mm lens VHP-1 Housing, Wallbracket WD-21, 600TVL

Art-No.: 96048

eneo VK-1318/W2

1/3“ HiRes B&W Camera with 4-8mm Lens VHP-2 Housing, 600TVL

Art-No.: 96043

Plug & Play Camera Systems

eneo VKC-144/W1

1/4“ Colour Camera with 3.6mm Lens in VHP-1 Housing, Wallbracket WD-21, 380TVL

Art-No.: 96006

eneo VKC-144/W2

1/4“ Colour Camera with 3.6mm Lens, VHP-2 Housing, 380TVL

Art-No.: 96031

eneo VKC-148/W1

1/4“ Colour Camera with 2.9mm Lens in VHP-1 Housing, Wallbracket WD-21, 470TVL

Art-No.: 96027

eneo VKC-148/W2

1/4“ HiRes Colour Camera with 2.9mm Lens VHP-2 Housing, 470TVL

Art-No.: 96032

eneo VKC-1413/W2

1/4“ Colour Camera with 2.6-5.6mm Lens VHP-2 Housing, 380TVL

Art-No.: 96044

eneo CANDID M-04

1/3“ B/W Camera with F1.0/3-8mm DC Lens Candid Weatherproof Housing, 560TVL

Art-No.: 96018

eneo CANDID C-02

1/3“ Colour Camera with F1.0/3-8mm Lens Candid Dustproof Housing, 480TVL

Art-No.: 96002

Overview Plug & Play Camera Systems

Art-No.	Type	Brand	Sensor	Lens*	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Sullpy Voltage	Protection Rating	Dimensions (HxWxD) mm
96005	VK-133/W1	eneo	B/W	F2.0/3.8mm	1/3“	420	0.58	12VDC	IP66/67	55x55x137.5
96048	VK-1317S/W1	eneo	B/W	F2.0/3.8mm	1/3“	600	0.76	12VDC	IP66/67	55x55x137.5
96043	VK-1318/W2	eneo	B/W	F2.0/4-8mm	1/3“	600	0.75	12VDC	IP67	55x55x204
96006	VKC-144/W1	eneo	Colour	F2.0/3.6mm	1/4“	380	0.5	12VDC	IP66/67	55x55x137.5
96031	VKC-144/W2	eneo	Colour	F2.0/3.6mm	1/4“	380	0.5	12VDC	IP67	55x55x204
96027	VKC-148/W1	eneo	Colour	F2.0/2.9mm	1/4“	470	0.63	12VDC	IP66/67	55x55x137.5
96032	VKC-148/W2	eneo	Colour	F2.0/2.9mm	1/4“	470	0.63	12VDC	IP67	55x55x204
96044	VKC-1413/W2	eneo	Colour	F2.0/2.6-5.6mm	1/4“	380	0.5	12VDC	IP67	55x55x204
96047	TCZ-920PV	Fujitsu	Colour	F2.0/2.8-5.8mm	1/4”	460	1.2	12/24VDC	IP67	55x55x226
96018	CANDID M-04	eneo	B/W	F1.0/3-8mm	1/3“	560	0.14	12VDC	IP67	101x113x420
96002	CANDID C-02	eneo	Colour	F1.0/3-8mm	1/3“	480	1.0	12VDC	IP54	90x90x400
96004	CANDID C-04	eneo	Colour	F1.0/3-8mm	1/3“	480	1.0	12VDC	IP67	101x113x420

* Camera packages with other camera/lens combinations: upon request

Accessories

Art-No.	Type	Description
79494	VHU-NT1	Power Supply for Candid Housing Series 230VAC/12VDC-14VAC (Camera/Heater)
79557	VHU-NT2	Power Supply for Candid Housing Series 230VAC/24VAC-24VAC (Camera/Heater)
79591	VHU-NT2/1	Power Transformer for Candid Dustproof Housing, 230V/24VAC

Plug & Play Camera Systems

Plug & Play
CANDID Camera Systems

1/3“ Day/Night Camera w. IR Illumination
F1.3/3.8-9.5mm, 12VDC/24VAC, 480TVL

- Weatherproof Camera with Swivel Head Bracket
- 1/3“ Day/Night CCD Camera with Varifocal Lens
- Lens F1.3/3.8-9.5mm with DC Iris Control
- Sensitivity: 0.005Lux at F1.2 (DSS ON)
- Resolution of 480 Horizontal Lines
- Removable IR Cut Filter
- Sensitivity Enhancement: 32x max. (DSS Function)
- Switchable Low Speed Shutter (High/Low)
- Back Light Compensation (BLC)/Shutter Control (AES
- IR Illumination by 15 integrated 850nm LED`s
- Supply Voltage: 12VDC/24VAC
- Hidden Cable Routing / Protection Rating: IP66/67

Art-No.: 96066

eneo VKC-1333IR/W3

eneo VKC-1326/W3

1/3“ Day/Night Camera w. F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 96058

eneo VKC-1327/W3

1/3“ Day/Night Camera w. F1.3/3.8-9.5mm Lens, 12VDC/24VAC, 480TVL

Art-No.: 96059

eneo VKC-1326IR/W3

1/3“ Day/Night Camera w. IR Illumination F1.3/3.8-9.5mm, 12VDC, 480TVL

Art-No.: 96061

Overview Plug & Play Camera Systems

	Art-No.	Type	Brand	Sensor	Lens mm	CCD-Format	IR-Cut-filter	Integrated IR Illumination	Low-Speed Shutter	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage
not illustr.	**96070**	VKC-1339/W3	eneo	Colour	F1.4/4-9	1/3”	–	–	–	330	0.38	12VDC
not illustr.	**96065**	VKC-1324/W3	eneo	Colour	F1.3/3.8-9.5	1/3”	–	–	–	480	0.5	12VDC
	96058	VKC-1326/W3	eneo	Colour	F1.3/3.8-9.5	1/3”	–	–	√	480	0.005*	12VDC
	96061	VKC-1326IR/W3	eneo	Colour	F1.3/3.8-9.5	1/3“	–	√	√	480	0.005*	12VDC
	96059	VKC-1327/W3	eneo	Colour	F1.3/3.8-9.5	1/3“	√	–	–	480	0.5	12VDC/24VAC
not illustr.	**96060**	VKC-1327IR/W3	eneo	Colour	F1.3/3.8-9.5	1/3“	√	√	–	480	0.5	12VDC/24VAC
	96066	VKC-1333IR/W3	eneo	Colour	F1.3/3.8-9.5	1/3“	√	√	√	480	0.005*	12VDC/24VAC
not illustr.	**96069**	VKC-1329/W3	eneo	Colour	F1.3/3.8-9.5	1/3“	√	–	√	480	0.01*	12VDC

* With Sens-up Function

eneo VK-1322/SMD

1/3“ B/W Camera with 3.7mm Lens in Smoke Detector Housing, 12VDC, 600TVL

Art-No.: 91988

eneo VKC-1332/SMD

1/3“ Colour Camera with 3.6mm Lens in Smoke Detector Housing, 12VDC, 470TVL

Art-No.: 91987

eneo VK-1321/PIR

1/3“ B/W Camera with 3.7mm Lens and PIR Sensor, 12VDC, 600TVL

Art-No.: 91989

eneo VKC-149/PIR

1/4“ Colour Camera with 3.7mm Lens and PIR Sensor, 12VDC, 340TVL

Art-No.: 91813

eneo VKC-1338/PIR

1/3“ Colour Camera with 3.7mm Lens and PIR Sensor, 12VDC, 470TVL

Art-No.: 91991

Overview Covert Camera Systems

Art-No.	Type	Brand	Sensor	Lens	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Dimensions (HxWxD) mm
91988	VK-1322/SMD	eneo	B/W	F2.0/3.7mm	1/3”	600	0.23	12VDC	60x120ø
91987	VKC-1332/SMD	eneo	Colour	F2.0/3.6mm	1/3”	470	0.5	12VDC	57x130ø
91989	VK-1321/PIR	eneo	B/W	F2.0/3.7mm	1/3”	600	0.23	12VDC	120x70x48
91813	VKC-149/PIR	eneo	Colour	F2.0/3.7mm	1/4“	340	0.9	12VDC	110x70x50
91991	VKC-1338/PIR	eneo	Colour	F2.0/3.7mm	1/3”	470	2.0	12VDC	120x70x48

Security Cameras

eneo VK-1315S/12V

1/3“ B/W Camera, 12VDC, 380TVL

Art-No.: 91927

eneo VK-1315S/230V

1/3“ B/W Camera, 230VAC, 380TVL

Art-No.: 91929

eneo VK-1316S/12V

1/3“ B/W Camera, 12VDC, 570TVL

Art-No.: 91931

eneo VK-1316S/24V

1/3“ B/W Camera, 24VAC, 570TVL

Art-No.: 91932

eneo VK-1316S/230V

1/3“ B/W Camera, 230VAC, 570TVL

Art-No.: 91933

eneo VK-1319

1/3“ B/W Cylinder Camera with 3.6mm Lens, 12VDC, 420TVL

Art-No.: 91866

eneo VK-134

1/3“ B/W Board Camera in Housing with 3.6mm Lens, 12VDC, 380TVL

Art-No.: 91747

eneo VKC-1328

1/3“ Colour Camera, DSP, 12VDC, 480TVL

Art-No.: 91963

eneo VKC-1310S/12-24

1/3“ Colour Camera, DSP, 12VDC/24VAC, 330TVL

Art-No.: 91951

eneo VKC-1310S/230V

1/3“ Colour Camera, DSP, 230VAC, 330TVL

Art-No.: 91934

eneo VKC-134/1

1/3“ Colour Camera with RS-232 Port, DSP, 12VDC, 480TVL

Art-No.: 91519

eneo VKC-1311S/12-24

1/3“ Colour Camera, DSP, 12VDC/24VAC, 480TVL

Art-No.: 91952

The shipping package for the illustrated cameras does not include a lens.

eneo VKC-1311S/230V

1/3“ Colour Camera, DSP, 230VAC, 480TVL

Art-No.: 91935

eneo VKC-1321

1/3“ Colour Camera, DSP, 12VDC/24VAC, 480TVL

Art-No.: 92465

Fujitsu CG-321PA1V

1/3“ Colour Camera with DSP, AGC, APC, BLC, ESC, AWB, 12VDC/24VAC, 480TVL

Art-No.: 92466

Fujitsu TCZ-2310P

1/3“ Colour Camera, DSP, 230VAC, 480TVL

Art-No.: 92458

eneo VKC-1320/12-24

1/3“ Colour Camera with Built-in 3.3-8mm Varifocal Lens, DSP, 12VDC/24VAC, 480TVL

Art-No.: 91977

eneo VKC-1416

1/4“ Colour Camera with 22x Zoom Lens DSP, 12VDC, 480TVL

Art-No.: 91964

eneo VKC-1320

1/3“ Colour Camera with Built-in 3.3-8mm Vario Lens, DSP, 230VAC, 480TVL

Art-No.: 91918

eneo VKC-135

1/3“ Colour Board Camera with 4.0mm Lens 12VDC, 480TVL

Art-No.: 91506

eneo VKC-143

1/4“ Colour Board Camera with 4.0mm Lens, 12VDC, 330TVL

Art-No.: 91505

Security Cameras

Overview Security Cameras

	Art-No.	Type	Brand	Sensor	CCD-Format	Lens Mount	Resol. (TVL)	Sensitivity (Lux)	Lens Control	Supply Voltage	Dimensions (HxWxD) mm	BLC	Eclipser	Interface
	91927	VK-1315S/12V	eneo	B/W	1/3“	C/CS	380	0.1	DC/AI	12VDC	54x62x127	√	–	–
	91929	VK-1315S/230V	eneo	B/W	1/3“	C/CS	380	0.1	DC/AI	230VAC	54x62x127	√	–	–
	91931	VK-1316S/12V	eneo	B/W	1/3“	C/CS	570	0.18	DC/AI	12VDC	54x62x127	√	–	–
	91932	VK-1316S/24V	eneo	B/W	1/3“	C/CS	570	0.18	DC/AI	24VAC	54x62x127	√	–	–
	91933	VK-1316S/230V	eneo	B/W	1/3“	C/CS	570	0.18	DC/AI	230VAC	54x62x127	√	–	–
not illustr.	**92468**	CG-321CA1V	Fujitsu	B/W	1/3“	CS	580	0.1	DC/AI	12VDC/24VAC	58.5x54x56	√	√	–
	91866	VK-1319	eneo	B/W	1/3“	–	420	0.23	–	12VDC	60(L)x19(D)	–	–	–
	91747	VK-134	eneo	B/W	1/3“	–	380	0.58	–	12VDC	30x30x28	–	–	–
	91951	VKC-1310S/12-24	eneo	Colour	1/3”	C/CS	330	0.45	DC/AI	12VDC/24VAC	54x62x127	√	–	–
	91934	VKC-1310S/230V	eneo	Colour	1/3“	C/CS	330	0.45	DC/AI	230VAC	54x62x127	√	–	–
	91963	VKC-1328	eneo	Colour	1/3“	CS	480	0.6	DC	12VDC	42.5x36x36.5	√	–	–
	91519	VKC-134/1	eneo	Colour	1/3“	CS	480	1.5	DC	12VDC	59x51x56	√	–	–
	91952	VKC-1311S/12-24	eneo	Colour	1/3“	C/CS	480	1.3	DC/AI	12VDC/24VAC	54x62x127	√	–	–
	91935	VKC-1311S/230V	eneo	Colour	1/3“	C/CS	480	1.3	DC/AI	230VAC	54x62x127	√	–	–
	92465	VKC-1321	eneo	Colour	1/3“	CS	480	1.0	DC/AI	12VDC/24VAC	58.5x54x56	√	√	–
	92466	CG-321PA1V	Fujitsu	Colour	1/3“	CS	480	1.0	DC/AI	12VDC/24VAC	58.5x54x56	√	√	–
	92458	TCZ-2310P	Fujitsu	Colour	1/3“	C/CS	480	1.0	DC/AI	230VAC	60x67x137	√	√	–
	91977	VKC-1320/12-24	eneo	Colour	1/3“	–	480	0.4	DC	12VDC/24VAC	54x62x170	√	–	–
	91918	VKC-1320	eneo	Colour	1/3“	–	480	0.4	DC	230VAC	54x62x170	√	–	–
	91506	VKC-135	eneo	Colour	1/3“	–	480	0.57	–	12VDC	51x58x39.5	√	–	–
	91505	VKC-143	eneo	Colour	1/4“	–	330	0.57	–	12VDC	51x58x39.5	√	–	–
	91964	VKC-1416	eneo	Colour	1/4“	–	480	0.45	DC	12VDC	69x62x106	√	–	RS-232/ RS-485

Accessories

Art-No.	Type	Description
91062	VKC-134/1-SW	Software/Adapter Cable for VKC-134/1
70448	VT-PS12DC-3	Plug-in Power Supply Unit 100-240VAC, 12VDC (1.0Amp), Regulated, w. Open Ends
91953	VKC-1310S/D	Dummy camera (VKC-1310S Series) with Dummy Lens

eneo VKC-1325

1/3“ Colour Camera w. Pixim Technologie, PAL/NTSC, 12VDC/24VAC, 480TVL

- Superior Images even in Harsh Backlight Conditions
- DPS (Digital Pixel System)
- Wide Dynamic Range: 95dB (14bit), 120db max.
- Resolution of 480 Horizontal Lines
- Sensitivity of 0.6 Lux (F1.2)
- Back Light Compensation (BLC)
- Automatic Gain Control (AGC)
- Horizontal and Vertical Aperture Correction (APC)
- Auto White Balance (ATW)
- Electronic Shutter Control (ESC)
- On-screen Menu Control and Camera ID Display
- C/CS Mount, Supply Voltage: 12VDC or 24VAC

Art-No.: 91939

The Solution for Difficult Light Conditions

A camera that features Wide Dynamic Range can show very bright and very dark areas in a scene at the same time without losing important details. We offer you two different approaches to utilise WDR. The Fujitsu CG-301PA1V is based on a Progressive Scan CCD, which reads out 50 frames per second, and not 50 fields per second, with PAL. The dynamic range is achieved here by processing the two frames in an image differently by using two separate automatic exposure time controls. In the simplest case, the controlled iris of a CD lens is responsible for exposing the darker sections of the first frame, whilst a shutter captures the light sections of the second frame. What's more, a second shutter is used in the latest Sony SS2™ chipset, which is also fitted in the new Fujitsu CG-301. The two different frames are scanned by the Progressive Scan Sensor and can now be exposed for different times even without using a DC lens. The two optimally exposed frames are now combined into a video image. DPS™, installed in the eneo VKC-1325, is a new technology based upon a special CMOS sensor that fundamentally changes the image processing method in cameras. This is achieved by inclusion of an analogue-to-digital converter within each single pixel of the image sensor. The chip can therefore allocate an optimal exposure time to each pixel. This considerably extends the camera's dynamic range up to a current measurement of 95 dB. The results are clear, realistic pictures rich with natural colours as normally recognised by the human eye.

with WDR

without WDR

Fujitsu CG-301PA1V

1/3“ Day/Night Multifunction Camera with WDR, OSD, DSS, 12VDC/24VAC, 480TVL

Art-No.: 92488

eneo VKC-1335/12-24

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 12/24V, 480TVL

Art-No.: 91995

eneo VKC-1335

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 230VAC, 480TVL

Art-No.: 91996

Overview WDR Cameras

	Art-No.	Type	Brand	Sensor	CCD-Format	Lens Mount	Resol. (TVL)	Sensitivity (Lux)	Lens Control	Supply Voltage	Day/Night	BLC	Eclipser	Interface
	92488	CG-301PA1V	Fujitsu	Colour	1/3“	CS	480	1.0	DC	12VDC/24VAC	√	√	–	RS-485
not illustr.	**92464**	CG-202P	Fujitsu	Colour	1/3“	CS	480	1.0	DC	12VDC/24VAC	–	√	–	–
	91939	VKC-1325	eneo	Colour	1/3“	C/CS	480	0.6	DC	12VDC/24VAC	–	√	–	–
	91995	VKC-1335/12-24	eneo	Colour	1/3“	C/CS	480	0.25	DC	12VDC/24VAC	√	√	–	RS-485
	91996	VKC-1335	eneo	Colour	1/3“	C/CS	480	0.25	DC	100-240VAC	√	√	–	RS-485

HIGHLIGHTS
Day/Night Cameras

eneo VKC-1327IR/W3

1/3“ Day/Night Camera w. IR Illumination, F1.3/3.8-9.5mm, 12VDC/ 24VAC, 480TVL

- Weatherproof Camera with Swivel Head Bracket
- 1/3“ Day/Night CCD Camera with Varifocal Lens
- Built-in Lens F1.3/3.8-9.5mm with DC Iris Control
- Sensitivity of 0.15Lux (AGC Turbo, B&W Operation)
- Resolution of 480 Horizontal Lines
- Removable IR Cut Filter
- Automatic Shutter Control (AES)
- Back Light Compensation (BLC)
- IR Illumination by 15 integrated 850/880nm LED`s
- Supply Voltage: 12VDC / Fully Hidden Cable Routing
- Protection Rating: IP66/67
- Certified according to BGV Kassen

Art-No.: 96060

Fujitsu CG-301PA1V

1/3“ Day/Night Multifunction Camera with WDR, OSD, DSS, 12VDC/ 24VAC, 480TVL

- Wide Dynamic Range (WDR): 60dB (Sony SSII Chip Set)
- Removable IR Cut Filter w. „Detect Time“ Function
- On-screen Menu Control / Camera Titel Display
- Sensitivity of 0.025Lux at F1.2 (DSS/Colour)
- Scene Select Function (Inside, Outside, Casino)
- Back Light Compensation (BLC) / Zone Masking
- High- und Low-Speed Shutter Control (ESC/DSS)
- Auto Blemish Compensation (up to 10 Pixels)
- 2.5x Digital Zoom and Flickerless Function
- Automatic White Balance with Hold Function (AWB)
- External Day/Night Selection / RS-485 Interface
- Supply Voltage 12VDC or 24VAC

Art-No.: 92488

eneo VK-1313/IR12-24

1/3“ B/W IR Camera, DSP, 12VDC/24VAC, 590TVL

Art-No.: 91806

eneo VK-1313/IR

1/3“ B/W IR Camera, DSP, 230VAC, 590TVL

Art-No.: 91807

Fujitsu CG-311PA1V

1/3“ Day/Night Camera with Switchable IR Cut Filter, DSP, 12VDC/24VAC, 480TVL

Art-No.: 92486

eneo VKC-1335/12-24

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 12/24V, 480TVL

Art-No.: 91995

eneo VKC-1335

1/3“ D&N, WDR, DSS Camera with Removable IR CF, CS Mount, 230VAC, 480TVL

Art-No.: 91996

eneo VKC-1337/IR

1/3“ Day/Night Camera w. IR Illumination F1.3/3.8-9.5mm, 480TVL, 12VDC/24VAC

Art-No.: 91984

eneo VKC-1317/IR-3.8

1/3“ D/N Camera, F2.0/3.8mm Lens, 850nm LED Illumination, 380TVL

Art-No.: 91958

eneo VKC-1317/IR

1/3“ D/N Camera, F2.0/6mm Lens, 850nm LED Illumination, 380TVL

Art-No.: 91873

eneo VKC-1326/W3

1/3“ Day/Night Camera w. F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 96058

eneo VKC-1327/W3

1/3“ Day/Night Camera w. F1.3/3.8-9.5mm Lens, 12VDC/24VAC, 480TVL

Art-No.: 96059

eneo VKC-1326IR/W3

1/3“ Day/Night Camera w. IR Illumination F1.3/3.8-9.5mm, 12VDC, 480TVL

Art-No.: 96061

eneo VKC-1333IR/W3

1/3“ Day/Night Camera w. IR Illumination F1.3/3.8-9.5mm, 12VDC/24VAC, 480TVL

Art-No.: 96066

eneo VKC-1329/W3

1/3“ Day&Night WDR Camera with Removable IR CF, F1.3/3.8-9.5mm, 480TVL, 12VDC

Art-No.: 96069

eneo VKC-1319IR12-24

1/3“ Day/Night Camera with Switchable IR Cut Filter, DSP, 12VDC/24VAC, 510TVL

Art-No.: 91892

eneo VKC-1319/IR

1/3“ Day/Night Camera with Switchable IR Cut Filter, DSP, 230VAC, 510TVL

Art-No.: 91937

Day/Night Cameras

eneo VKC-1323/IR-12V

1/3“ Day/Night Camera with Switchable IR Cut Filter, DSP, 12VDC, 480TVL

Art-No.: 91943

eneo VKC-1330/IR

1/3“Day/Night Camera, DSP, EDR, RS-485, Rem. IR Cut Filter, 230VAC, 510TVL

Art-No.: 91968

eneo VKC-1330/IR12-24

1/3“Day/Night Camera, DSP, EDR, RS-485, Rem. IR Cut Filter, 12VDC/24VAC, 510TVL

Art-No.: 91967

eneo VKC-1330/IR

1/3“Day/Night Camera, DSP, EDR, RS-485, Rem. IR Cut Filter, 230VAC, 510TVL

Art-No.: 91968

eneo VKC-1417/IR

1/4“ Day/Night Camera w. IR Illumination F1.6/3.5-91mm (26x Zoom), 480TVL, 12VDC

Art-No.: 91986

Overview Day/Night Cameras

Art-No.	Type	Brand	CCD-Format	Mount/Lens	Resolution (TVL)*	Sensitivity (Lux)*	Sensup	Lens Control	Supply Voltage	Integrated IR Illumination	BLC	OSD	Interface
91806	VK-1313/IR12-24	eneo	1/3“	C/CS	480	0.1	–	DC/AI	12VDC/24VAC	–	√	–	RS-232
91807	VK-1313/IR	eneo	1/3“	C/CS	480	0.1	–	DC/AI	230VAC	–	√	–	RS-232
92488	CG-301PA1V	Fujitsu	1/3“	CS	480	1.0	–	DC/AI	12VDC/24VAC	–	√	√	RS-485
92486	CG-311PA1V	Fujitsu	1/3“	CS	480	0.32	–	DC/AI	12VDC/24VAC	–	√	–	–
91995	VKC-1335/12-24	eneo	1/3“	C/CS	480	0.25	–	DC	12VDC/24VAC	–	√	√	RS-485
91996	VKC-1335	eneo	1/3“	C/CS	480	0.25	–	DC	100-240VAC	–	√	√	RS-485
91984	VKC-1337/IR	eneo	1/3“	F1.3/3.8-9.5mm	480	0.46	–	DC	12VDC/24VAC	√	√	–	–
91958	VKC-1317/IR-3.8	eneo	1/3“	F2.0/3.8mm	380	0.7	–	–	12VDC	√	–	–	–
91873	VKC-1317/IR	eneo	1/3“	F2.0/6mm	380	0.25	–	–	12VDC	√	–	–	–
96058	VKC-1326/W3	eneo	1/3“	F1.3/3.8-9.5mm	480	0.005**	–	DC	12VDC	–	–	–	–
96059	VKC-1327/W3	eneo	1/3“	F1.3/3.8-9.5mm	480	0.5	–	DC	12VDC	–	–	–	–
96060	VKC-1327IR/W3	eneo	1/3“	F1.3/3.8-9.5mm	480	0.5	–	DC	12VDC/24VAC	√	–	–	–
96061	VKC-1326IR/W3	eneo	1/3“	F1.3/3.8-9.5mm	480	0.005**	–	DC	12VDC/24VAC	√	–	–	–
96066	VKC-1333IR/W3	eneo	1/3“	F1.3/3.8-9.5mm	480	0.006**	–	DC	12VDC/24VAC	√	–	–	–
96069	VKC-1329/W3	eneo	1/3“	F1.3/3.8-9.5	480	0.001**	–	DC	12VDC	–	–	√	–
91892	VKC-1319IR12-24	eneo	1/3“	C/CS	510	0.42	–	DC/AI	12VDC/24VAC	–	√	–	–
91937	VKC-1319/IR	eneo	1/3“	C/CS	510	0.78	–	DC/AI	230VAC	–	√	–	–
91943	VKC-1323/IR-12V	eneo	1/3“	C/CS	450	0.45	–	DC/AI	12VDC	–	√	–	–
91968	VKC-1330/IR	eneo	1/3“	C/CS	480	0.001	√	DC/AI	230VAC	–	√	–	RS-232/ RS485
91967	VKC-1330/IR12-24	eneo	1/3“	C/CS	480	0.001	√	DC/AI	12VDC/24VAC	–	√	–	RS-232/ RS485
91986	VKC-1417/IR	eneo	1/4“	F1.6/3.5-91mm	480	0.78	–	DC	12VDC	√	√	√	RS485

* at colour mode ** with sens-up function

Accessories

Art-No.	Type	Description
70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC, 12VDC (1.0Amp), Regulated, w. Open Ends

HIGHLIGHTS

Board Cameras

eneo VKC-1327/VAR49

1/3“ Day/Night Board Camera with F1.3/3.8-9.5mm, Removable IR CF, 480TVL

- 1/3“ Day/Night CCD Board Camera, 38x38mm
- Varifocal Lens with DC Controlled Iris
- Resolution of 480 Horizontal Lines
- Sensitivity of 0.15Lux (AGC ON and B&W)
- Built-in Lens F1.3/3.8-9.5mm with DC Iris Control
- Removable IR Cut Filter
- Digital Signal Processing (DSP)
- High Speed Shutter Control (AES)
- Backlight Compensation (BLC)
- Automatic White Balance (ATW)
- Supply Voltage: 12VDC/24VAC
- Certified according to BGV Kassen

Art-No.: 91961

Fujitsu CB-341PC1V

1/3“ Colour Board Camera with CS Mount, 12VDC, 480TVL

- Digital Signal Processing (DSP)
- Resolution of 480 Horizontal Lines
- High Sensitivity of 1.0Lux (at F1.2)
- Automatic Gain Control (AGC)
- Electronic Shutter Control (ESC)
- Back Light Compensation (BLC)
- Horizontal and Vertical Aperture Correction (APC)
- For Lenses with manual or DC controlled Iris
- Flickerless Function (FL)
- CS Mount
- Supply Voltage: 12VDC

Art-No.: 92485

eneo VK-133

1/3“ B/W Board Camera with 3.8mm Lens 12VDC, 420TVL

Art-No.: 91746

eneo VK-133/PH

1/3“ B/W Board Camera with 3.7mm Pinhole Lens, 12VDC, 380TVL

Art-No.: 91773

eneo VK-1317

1/3“ B/W Board Camera with 3.8mm Lens 12VDC, 600TVL

Art-No.: 91826

Board Cameras

eneo VK-1317/PH

1/3“ B/W Board Camera with 3.7mm Pinhole Lens, 12VDC, 600TVL

Art-No.: 91872

eneo VK-1318/VAR48

1/3“ B/W Board Camera with 4-8mm Varifocal Lens, 12VDC, 600TVL

Art-No.: 91842

eneo VKC-144

1/4“ Colour Board Camera with 3.6mm Lens 12VDC, 380TVL

Art-No.: 91756

eneo VKC-144/PH

1/4“ Colour-Board Camera with 3.7mm Pinhole Lens, 12VDC, 380TVL

Art-No.: 91774

eneo VKC-148

1/4“ Colour Board Camera with 2.9mm Lens 12VDC, 470TVL

Art-No.: 91811

eneo VKC-1414/VAR36

1/4“ Colour Board Camera with Lens F1.2/3-9mm, 12VDC, 330TVL

Art-No.: 91983

eneo VKC-1413/VAR25

1/4“ Colour-Board Camera with 2.6-5.6mm Varifocal Lens, 12VDC, 380TVL

Art-No.: 91843

Fujitsu CB-341PA1V

1/3“ B/W Camera, DSP, 12VDC/24VAC, 580TVL

Art-No.: 92469

eneo VKC-1324/VAR49

1/3“ Colour Board Camera with F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 91962

eneo VKC-1326/VAR49

1/3“ Day/Night Board Camera with F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 91959

Overview Board Cameras

Art-No.	Type	Sensor	Brand	Lens	Changeable Lens	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Dimensions (HxWxD) mm
91746	VK-133	B/W	eneo	F2.0/3.8mm	√	1/3“	380	1.6*/0.58**	12VDC	32x32x25
91773	VK-133/PH	B/W	eneo	F4.0/3.7mm	–	1/3“	380	4.25*/0.5**	12VDC	32x32x14
91926	VK-1317S	B/W	eneo	F2.0/3.8mm	√	1/3“	600	2.1	12VDC	30x30x25
91872	VK-1317/PH	B/W	eneo	F4.0/3.7mm	–	1/3“	600	6.4*/0.75**	12VDC	30x30x25
91842	VK-1318/VAR48	B/W	eneo	F2.0/4-8mm	–	1/3“	600	2.1*/0.75**	12VDC	30x30x55
91849	VKC-1314	Colour	eneo	F2.0/3.6mm	√	1/3“	380	5.0**	12VDC	30x30x28
91756	VKC-144	Colour	eneo	F2.0/3.6mm	√	1/4“	380	3.5*/1.25**	12VDC	32x32x25
91774	VKC-144/PH	Colour	eneo	F4.0/3.7mm	–	1/4“	380	6.0*/0.7**	12VDC	32x32x14
91811	VKC-148	Colour	eneo	F2.0/2.9mm	√	1/4“	470	1.75*/0.63**	12VDC	32x32x50
91843	VKC-1413/VAR25	Colour	eneo	F2.0/2.6-5.6mm	–	1/4“	380	3.5*/1.25**	12VDC	32x32x55
91983	VKC-1414/VAR36	Colour	eneo	F1.2-360/3-9mm	–	1/4“	330	0.95*/0.7**	12VDC	42x51x57.5
92485	CB-341PC1V	Colour	Fujitsu	CS-Mount	√	1/3“	480	1.0*/0.65**	12VDC	42x23x74
92469	CB-341PA1V	Colour	Fujitsu	F0.95/2.9-8mm	–	1/3“	480	1.0*/0.65***	12VDC	50x42x57
91962	VKC-1324/VAR49	Colour	eneo	F1.3/3.8-9.5mm	–	1/3“	480	0.5**	12VDC	42x51x61.1
91959	VKC-1326/VAR49	Colour	eneo	F1.3/3.8-9.5mm	–	1/3“	480	0.005	12VDC	42x51x67.7
91961	VKC-1327/VAR49	Colour	eneo	F1.3/3.8-9.5mm	–	1/3“	480	0.5****	12VDC	42x51x69.1
91992	VKC-1334/VAR49	Colour	eneo	F1.3/3.8-9.5mm	–	1/3“	480	0.001**	12VDC	42x51x69.1

* measurement result, ** at F1,2, *** at F0,95,
**** 0,5Lux (0,32Lux) at colour ; 0,24Lux (0,15Lux) at b&w; at F1,2 each (AGC-Turbo), measurement result

Accessories

Art-No.	Type	Description
40059	H0225M	F2.5/2.5mm Board Camera Lens, 1/3“ M12X0.5
40064	H0320M	F2.0/3.6mm Board camera lens, 1/3“ M12x0.5
40072	H0620M	F2.0/6mm Board Camera Lens, 1/3“ M12x0.5
40061	H0820M	F2.0/8mm Board Camera Lens, 1/3“ M12X0.5
40065	H1225	F2.5/12mm Board camera lens, 1/3“ M12x0.5
40062	I0323M	F3.5/2.3mm Board Camera Lens, 1/3“ M12X0.75
40063	I0635M	F3.5/6mm Board Camera Lens, 1/3“ M12X0.75
70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC, 12VDC (1.0Amp), Regulated, w. Open Ends

Mounts for Cameras

eneo WD-21/RAL9006

Wall Mount with Ball Joint, 1/4“ Camera Fixing Screw, RAL9006

Art-No.: 70697

eneo WD-12

Wall Mount with Ball Joint, 1/4“ Camera Fixing Screw, RAL7032

Art-No.: 70650

eneo WD-13

Ceiling Mount with Ball Joint, 1/4“ Camera Fixing Screw, RAL7032

Art-No.: 70660

eneo WD-13/E

Ceiling Mount w. Ball Joint, extendable 1/4“ Camera Fixing Screw, RAL7032

Art-No.: 70220

eneo WD-8/MK

Wall Mount with Swivel Head, 1/4“ Camera Fixing Screw, Black Finish

Art-No.: 71310

eneo WD-9N

Wall Mount with Ball Joint, 1/4“ Camera Fixing Screw, Black Finish

Art-No.: 70023

eneo WD-22

Wall Mount with Ball Joint, 1/4“ Camera Fixing Screw, Beige Grey

Art-No.: 70769

eneo WD-24

Wall Mount with adjustable Swivel Head, 1/4“ Camera Fixing Screw, Black Finish

Art-No.: 70772

eneo WD-23

Wall Mount with Ball Joint, 1/4“ Camera Fixing Screw, Pantone 877

Art-No.: 70771

Overview Mounts for Cameras

	Art-No.	Type	Brand	Mounting Distance/Height	Mounting	Load Capacity	Material	Colour	Weight
	70697	WD-21/RAL9006	eneo	125mm	Wall	2kg	Aluminium	RAL 9006	160g
	70650	WD-12	eneo	190mm	Wall	2kg	Aluminium	RAL 7032	220g
not illustr.	**70230**	WD-12/E	eneo	210-310mm	Wall	2kg	Aluminium	RAL 7032	220g
	70660	WD-13	eneo	190mm	Ceiling	2kg	Aluminium	RAL 7032	440g
	70220	WD-13/E	eneo	210-310mm	Ceiling	2kg	Aluminium	RAL 7032	500g
	71310	WD-8/MK	eneo	186mm	Wall	3kg	Aluminium	black	240g
	70023	WD-9N	eneo	203mm	Wall	1.5kg	Aluminium	black	260g
not illustr.	**70688**	WD-18	eneo	145/165mm	Wall/Ceiling	2kg	Plastic	beige	150g
	70769	WD-22	eneo	95/120mm	Wall/Ceiling	1.5kg	Plastic	beige	40g
	70772	WD-24	eneo	155mm	Wall/Ceiling	3.5kg	Plastic	black	90g
	70771	WD-23	eneo	130/155mm	Wall/Ceiling	1.5kg	Aluminium	Pantone 877	80g

eneo LAN-04 BUNDLE

4x NW Colour Camera, F1.0/3-8mmDC,480TVL, VHM Housing, Network Recorder

- 1/3“ CCD Colour Camera with MJPEG Compression
- Lens: F1.0/3-8mm with DC Controlled Iris
- Recording Rate: Upto 50 Fields/Sec.
- E-Mail and FTP Transmission of Important Events
- Ethernet Interface: 10/100Base-T
- Weatherprotected Housing with 24V Screen Heater
- Plugable Connector with 3m Multicore Cable
- Wall Brackets WD-16
- 8-channel Digital IP Recorder
- Image Resolution of 720x544 Pixels max.
- Recording Rate: 50 Fields/Sec.
- Integral 80Gbyte Hard Disk

Art-No.: 96057

Easy Access

In addition to our Candid camera systems we can also offer you plug & play packs with network cameras. Part of the package is the eneo network colour camera END-1002 (page 20) with 480 TVL and motion detection which is integrated into the reliable VHM weatherproof housing. The packs are available with different lenses so they fulfil several applications. Like the Candid plug & play everything is ready to fit. Extremely practical: In the LAN-4 Bundle the eneo digital network video recorder DNR-108/80 (page 70) is included. The easiest access to the world of network based video surveillance available.

eneo LAN-02

1/3“ Network Colour Camera, F1.0/3-8mmDC in VHM Weatherproof Housing, 480TVL

Art-No.: 96055

eneo LAN-03

1/3“ NW Colour Camera, F1.3/2.7-13.5mm DC in VHM Weatherproof Housing, 480TVL

Art-No.: 96056

eneo WLAN-01

1/3“ WLAN Colour Camera, F1.4/2.8-12mmDC VHM Housing, Wallbracket, 340TVL, 230VAC

Art-No.: 96067

Overview LAN Camera Systems

	Art-No.	Type	Brand	Sensor	Lens mm	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Recording	Cameras	Supply Voltage	Dimensions (HxWxD)
not illustr.	**96054**	LAN-01	eneo	Colour	F1,2/2,8	1/3”	480	0,76	–	1	230VAC	125x133x473
	96055	LAN-02	eneo	Colour	F1,0/3-8	1/3“	480	0,76	–	1	230VAC	125x133x473
	96056	LAN-03	eneo	Colour	F1,0/2,7-13,5	1/3“	480	0,76	–	1	230VAC	125x133x473
	96057	LAN-04 Bundle	eneo	Colour	F1,0/3-8	1/3“	480	0,76	√	4	230VAC	125x133x473
	96067	WLAN-01	eneo	Colour	F1,4/2,8-12	1/3“	340	0.26	–	1	230VAC	125x133x473

HIGHLIGHTS
eneo Network Cameras

eneo ENC-1002W

1/3“ Network Colour Camera w. CS Mount and W LAN Card, 12VDC/ 230VAC, 480TVL

- 1/3“ CCD Colour Camera with CS-Mount
- Wireless LAN Transmission via W LAN CF Card
- Horizontal Resolution of 480 TV Lines
- Automatic Shutter Control (AES)
- MJPEG Compression
- Simultaneous Video and Audio Signal Transmission
- E-Mail and FTP Transmission of Important Events
- Activity Detection
- Ethernet Interface: IEEE 802.11b Standard
- Supports Various Network Environments
- CF Socket for Local Video Storage by CF Cards

Art-No.: 91442

eneo ENC-501L

1/3“ Network Colour Camera w. CS Mount, integr. Web Server, 5VDC/ 230VAC, 340TVL

- 1/3“ CCD Colour Network Camera
- Horizontal Resolution of 340 TV Lines
- Automatic Shutter Control (AES)
- C/CS Mount
- MJPEG Compression
- Simultaneous Video and Audio Signal Transmission
- E-Mail and FTP Transmission of Important Events
- Activity Detection
- Ethernet Interface: 10/100Base-TX
- 6mm Lens and Mounting Bracket Supplied
- SD Socket for Local Video Storage by SD Cards

Art-No.: 91423

eneo ENC-1002L

1/3“ Network Colour Camera w. CS Mount, integr. Web Server, 12VDC/230VAC, 480TVL

Art-No.: 91457

eneo ENC-501W

1/3“ Network Colour Camera with Antenna CS-Mount, 6mm Lens, 5VDC/230VAC, 340TVL

Art-No.: 91438

eneo ENC-WLAN CARD

CF Wireless LAN Card

Art-No.: 91439

Overview Network Cameras

Art-No.	Type	Brand	CCD-Format	Mount	Resolution (TVL)	Sensitivity (Lux)	Transmission via	Inter-faces	Compress. Standard	Alarm Input	Supply Voltage	Dimensions (HxWxD)
91457	ENC-1002L	eneo	1/3"	C/CS	480	0.76	LAN/WAN	√	MJPEG	1	12VDC/230VAC	57x70x135
91442	ENC-1002W	eneo	1/3"	CS	480	0.76	W-LAN	√	MJPEG	1	12VDC/230VAC	57x70x135
91423	ENC-501L	eneo	1/3"	CS	340	0.26	LAN/WAN	√	MJPEG	1	5VDC/230VAC	50x62x95
91438	ENC-501W	eneo	1/3"	CS	340	0.26	W-LAN	√	Wavelet	1	5VDC/230VAC	50x62x95

Accessories

Art-No.	Type	Description
91439	ENC-WLAN CARD	CF Wireless LAN Card
71005	UDS100-02	Device Server RS-232/RS-422/RS-485 to Ethernet 10Base-T/100Base-TX and vs/vs
71852	CF CARD/128	CF Memory Card 128MB for ENC-1002L
71853	CF CARD/256	CF Memory Card 256MB for ENC-1002L

Further eneo Network Components

eneo DNR-108/80

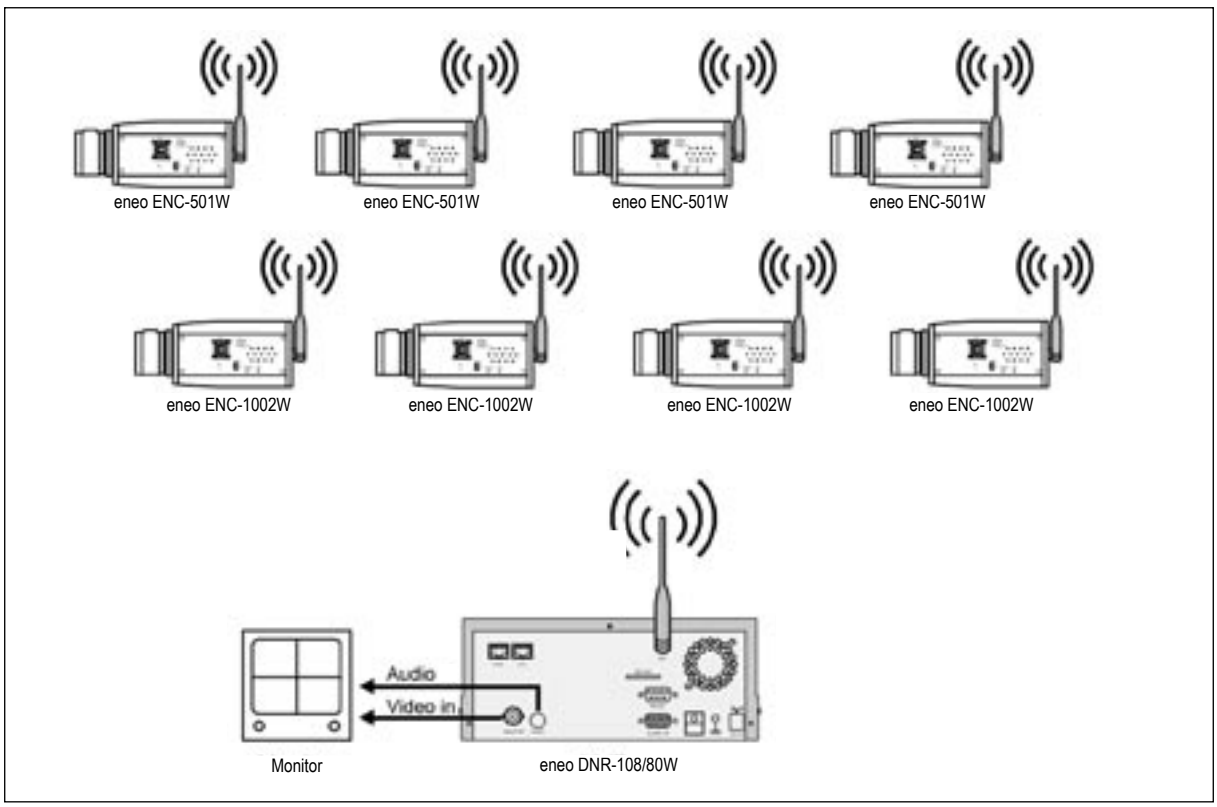
Digital IP Recorder (8 Channel), 80Gb
12VDC/230VAC

Art-No.: 71856

eneo DNR-108/80W

Digital W LAN IP Recorder (8 Channel), 80Gb,
12VDC/230VAC

Art-No.: 71875



Minidomes

Plug & Play
Minidomes

eneo VKCD-1310/VAR49

1/3“ Day/Night Surface Mount Dome Camera, F1.3/3.8-9.5mm, Removable IR CF, 480TVL

- For Drop Ceiling or Wall Mount
- Clear bubble with Inner Liner
- Resolution of 480 Horizontal Lines
- Sensitivity of 0.36Lux (B&W)
- Built-in Lens F1.3/3.8-9.5mm with DC Iris Control
- Automatic and Manual Removable IR Cut Filter
- Digital Signal Processing (DSP)
- Automatic Shutter Control (AES)
- Automatic White Balance (ATW)
- Easy Installation
- Supply Voltage: 12VDC
- Option: Wallbracket

Art-No.: 91997

eneo VKD-134

1/3“ B&W Dome Camera, Drop Ceiling Mount with 3.7mm lens, 12VDC, 420TVL

Art-No.: 91781

eneo VKD-135

1/3“ B&W Dome Camera, In-Ceiling Mount with 3.7mm lens, 12VDC, 420TVL

Art-No.: 91782

eneo VKD-136

1/3“ B&W Dome Camera, Drop Ceiling Mount with 3.6mm lens, 12VDC, 420TVL

Art-No.: 91799

eneo VKCD-134

1/3“ Colour Dome Camera Drop Ceiling Mount, 3.7mm Lens, 12VDC, 380TVL

Art-No.: 91787

eneo VKCD-135

1/3“ Colour Dome Camera In-Ceiling Mount with 3.7mm Lens, 12VDC, 380TVL

Art-No.: 91788

eneo VKCD-143

1/4“ Colour Dome Camera, Drop Ceiling Mount, 3.6mm Lens, 12VDC, 330TVL

Art-No.: 91801

eneo VKCD-144/HR

1/4“ Colour Dome Camera, Drop Ceiling Mount, with 3.6mm Lens, 12VDC, 480TVL

Art-No.: 91837

eneo VKCD-136/VAR39

1/3“ Colour/B&W Surface Mount Camera with F1.2/3-9mm Lens, 12VDC, 480TVL

Art-No.: 91998

Overview Minidomes

Art-No.	Type	Brand	Sensor	Lens	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Dimensions (HxWxD) mm
91781	VKD-134	eneo	B/W	F2.0/3.7mm	1/3“	420	1.05	12VDC	42.5x46.5x46.5
91782	VKD-135	eneo	B/W	F2.0/3.7mm	1/3“	420	1.05	12VDC	42.5x65x46.5
91799	VKD-136	eneo	B/W	F2.0/3.6mm	1/3“	420	0.58	12VDC	100x104x104
91787	VKCD-134	eneo	Colour	F2.0/3.7mm	1/3“	380	2	12VDC	42.5x46.5x46.5
91788	VKCD-135	eneo	Colour	F2.0/3.7mm	1/3“	380	2	12VDC	42.5x65x46.5
91801	VKCD-143	eneo	Colour	F2.0/3.6mm	1/4“	400	0.53	12VDC	70(H)x86.5(∅)
91837	VKCD-144/HR	eneo	Colour	F2.0/3.6mm	1/4“	480	0.56	12VDC	70(H)x86.5(∅)
91997	VKCD-1310/VAR49	eneo	Colour	F1.3/3.8-9.5mm DC	1/4“	480	0.92	12VDC	113(H)x108(∅)
91998	VKCD-136/VAR39	eneo	Colour	F1.2/3-9mm DC	1/3“	480	0.25*	12VDC	113(H)x108(∅)

* 0,005 Lux (bei Sens-up Funktion)

Accessories

Art-No.	Type	Description
91805	VKCD/WMB-1	Wall Mount for VKD-136, VKCD-143, VKCD-144/HR
91883	VKCD/WMB-2	Wall mount for VKCD-136, VKCD-145, VKCD-146, VKCD-147

MiniTrax Domes

eneo EDMC-141

1/4“ Colour High Speed Mini Dome Camera, 10x Zoom Lens, 24VAC, 430TVL

- 1/4“ Vandal Proof PTZ Colour Dome Camera
- 10x Optical and 10x Digital Zoom (100x Total)
- Zoom Lens: F1.6/3.15-31.5mm
- Horizontal Pan Range: 0 to 359°
- Horizontal Speed Range: 0 to 120°/Sek.
- 60 Presets / 4 Auto Scan Courses
- 4 Tours with 4 Presets each
- On-screen Menu Control and Camera ID Display
- High Speed Shutter (AES)
- Automatic and Manual White Balance (ATW)
- RS-485 Interface
- Supply Voltage: 12VDC/24VAC, IP Rating: IP66

Art-No.: 74096

eneo MiniTrax closes the gap to the big ones

In its compact and vandalism-proof housing, the MiniTrax delivers clear pictures of incidents in very endangered areas. The 1/4” colour dome camera with a resolution of 430 TV lines boasts a remote controlled motor zoom lens with 10x optical and 10x digital zooms; the focal length range is 3.15-31.5 mm (F1.6) and the light sensitivity 1.5 lux. MiniTrax moves into positions at speeds up to 120°/sec, and up to 60 presets can be stored.

The dome camera is the ideal choice for internal and external use, and in addition to the RS-485 serial interface it offers numerous features of its big brothers in the Fastrax Series. These include Programmable Guard Tours, AGC, Backlight Compensation and Automatic White Balance. Its maximum horizontal rotation of 359° and 90° tilt angle make the MiniTrax ideal for professional surveillance, for instance in the banking or retail sectors. The robust cast aluminium dome installation housing, shatterproof dome and fully hidden cable routing ensure protection against manipulation or sabotage. The two eneo EDC-KBD1 and EDC-KBDM-3 System Keyboards are available for controlling the MiniTrax, their features include manual Iris and Focus Control as well as input and retrieval of guard tours, tours and sequences. The camera can also be controlled by the eneo DLR and DXR series of digital recorders so that they are easy to install in existing eneo CCTV systems. By the way: two different wall mounts are obtainable as accessories to provide an alternative to ceiling and wall installation.

Overview MiniTrax Domes

Art-No.	Type	Brand	CCD-Format	Sensitivity	Resolution (TVL)	Zoom Range opt./digit.	Lens	Window Blanking	Alarm E/A	Heater	Bubble ø
74096	EDMC-141	eneo	1/4”	0.85Lux	430	10/10	F1.6~F32/3.15~31.5	√	1/-	Option	3.5”

Accessories

Art-No.	Type	Description
74097	EDMC/CWB	Wall or Pendant Mount Kit for EDMC Dome Camera and WDDG-1 Series
74099	EDMC/H12-24	Low Voltage Heater Kit 12-24V/20W for Minitrax Series
74094	EDC-COAX	Coax Telemetry Board for VPT-41/42, EDC/EDMC Series. assembled

* Installation by technical service necessary

BESTSELLER

eneo Fastrax Domes

eneo EDC-142E1

1/4“ Colour High Speed Economy Dome Camera, 22x Zoom Lens, 24VAC, 460TVL

- High Resolution Colour Dome Camera
- 22x Optical and 12x Digital Zoom (264 Total)
- Zoom Lens: F1.4/3.8-83.6mm
- High and Low Speed Shutter
- 240 Presets
- 4 Patterns
- 8 Autopans with Vector Scan
- 8 Tours with Vector Scan
- 8 Privacy Zones
- RS-485/RS-422 Interface
- Quick Detachable (Hot Swap)
- Supply Voltage: 18 to 30VAC, 50/60Hz

Art-No.: 74093

eneo EDC-143E

1/4“ Colour/B&W High Speed Dome Camera with 23x Zoom Lens, 24VAC, 470TVL

- Colour/B&W Dome Camera (Progressive Scan CCD)
- 23x Optical and 10x Digital Zoom (216 Total)
- Zoom Lens: F1.6/3.6-82.8mm
- Wide Dynamic Range (WDR)
- Removable IR Cut Filter
- Pattern, Tour and Autopan Function
- 240 Presets
- Dynamic Window Blanking
- RS-485/RS-422 Interface
- 8 Alarm Inputs/4 Outputs
- Programmable Alarm Action with Priority Levels
- Supply Voltage: 18 to 30VAC, 50/60Hz

Art-No.: 74091

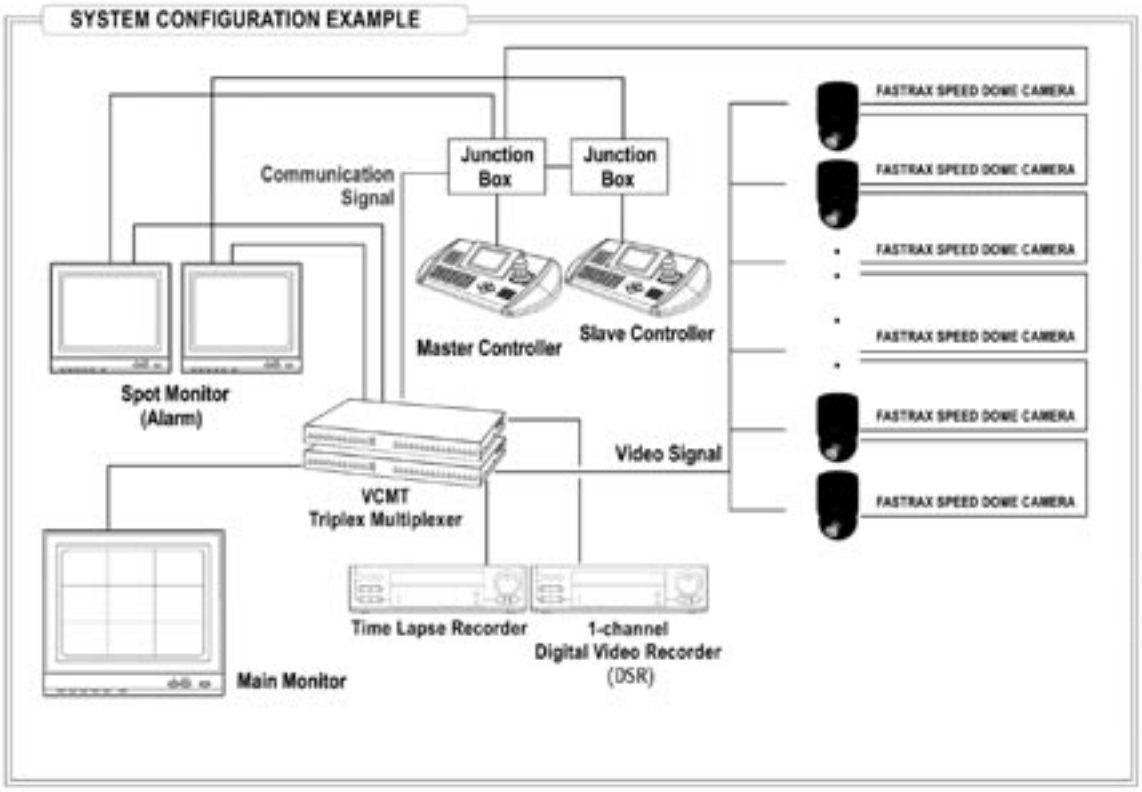
Overview Fastrax Domes

	Art-No.	Type	Brand	CCD-Format	Sensitivity	Resolution (TVL)	Zoom Range opt./digit.	Lens	Window Blanking	Alarm I/O	Bubble 5,9“
not illustr.	**74086**	EDC-141E	eneo	1/4”	0.5Lux	460	18/12	F1.4/4.1-73.8	√	8/4	√
	74093	EDC-142E1	eneo	1/4”	0.73Lux	480	22/12	F1.4/3.8-83.6	√	8/4	√
	74091	EDC-143E	eneo	1/4”	0.7Lux	470	23/10	F1.6/3.6-82.8	√	8/4	√
not illustr.	**74100**	EDC-144E	eneo	1/4”	0.35Lux	480	26/12	F1.6/3.5-91	√	8/4	√

Fastrax Domes

Vigilant by Day and Night

The Fastrax Domes are the stars in the eneo product range. The inspirational features of the compact hi-tech camera systems are unusual at this price category. First and foremost, the well-engineered day/night switchover is outstanding. A total of three modes can be selected for this function. This is assisted, for instance, by an infrared cut filter that eliminates the disruptive infrared daylight portion to deliver optimised images in all lighting conditions. And the camera resolution of 460 TV Lines detects all important details. Speed is one of your priorities? No problem. The High Speed Domes travel to positions at up to 380°/sec. Up to 240 fixed positions can be stored. The list of other features is also impressive: it includes eight alarm inputs and four outputs as well as eight programmable guard tours. Fully in trend is securing of the private sphere with up to four so-called Privacy Zones. These are sections on the video image that are dynamically blanked according to the selected focal length: a road can be monitored, but not the window in the flat above. Dome Camera control is achieved by a control keyboard with a joystick and integral 5" TFT monitor, or by other eneo series equipment. such as a multiplexer, matrix switcher or digital recorder. You want to operate only one device? Then control the whole domes, multiplexer and digital recorder system from the control keyboard. A favourably-priced solution for small and medium-sized systems. So versatile can also be good value.



eneo EDC-KBDM-3

System Keyboard w. Joystick, 5“ Monitor
12VDC/230VAC

Art-No.: 74092

eneo EDC-KBD1

System Keyboard with 3-axis Joystick,
12VDC/230VAC

Art-No.: 74088

eneo EDC-IPC-1/230V

Pendant Mount Indoor Dome Housing
Clear Bubble 6.8“, 230VAC

Art-No.: 74082

eneo EDC-IPS-1/230V

Pendant Mount Indoor Dome Housing
Tinted Bubble 6.8“, 230VAC

Art-No.: 74083

eneo EDC-OPC-1/230V

Pendant Mount Outdoor Dome Housing
Clear Bubble 6.8“, 230VAC

Art-No.: 74084

eneo EDC-OPS-1/230V

Pendant Mount Outdoor Dome Housing
Tinted Bubble 6.8“, 230VAC

Art-No.: 74085

eneo EDC-IPC-1/24V

Pendant Mount Indoor Dome Housing
Clear Bubble 6.8“, 24VAC

Art-No.: 74077

eneo EDC-IPS-1/24V

Pendant Mount Indoor Dome Housing
Tinted Bubble 6.8“, 24VAC

Art-No.: 74075

eneo EDC-OPC-1/24V

Pendant Mount Outdoor Dome Housing
Clear Bubble 6.8“, 24VAC

Art-No.: 74076

Fastrax Domes

eneo EDC-OPS-1/24V

Pendant Mount Outdoor Dome Housing Tinted Bubble 6.8“, 24VAC

Art-No.: 74078

eneo EDC-CMA2

Corner Mount Adapter for EDC-IPS/OPC Housings

Art-No.: 74054

eneo EDC-RTB

Roof Mount Bracket for Fastrax Outdoor Housings (w./o. Dome Housing)

Art-No.: 74074

eneo EDC-PM7

Pole Mount Adapter for EDC-IPS/OPC Housings, (50-140mm Pole)

Art-No.: 74055

eneo EDC-RTB

Parapet and Roof Mount Bracket for Fastrax Housings (w./o. Dome Housing)

Art-No.: 74090

eneo EDC-IDF

Flush Mount Dome Housing, Smoked Bubble 4.9“

Art-No.: 74057

Accessories

	Art-No.	Type	Description
	74092	EDC-KBDM-3	System Keyboard w. Joystick, 5“ Monitor 12VDC/230VAC
	74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
not illustr.	74057	EDC-IDF	Flush Mount Dome Housing, Smoked Bubble 4.9“
	74082	EDC-IPC-1/230V	Pendant Mount Indoor Dome Housing Clear Bubble 6.8“, 230VAC
	74083	EDC-IPS-1/230V	Pendant Mount Indoor Dome Housing Tinted Bubble 6.8“, 230VAC
	74084	EDC-OPC-1/230V	Pendant Mount Outdoor Dome Housing Clear Bubble 6.8“, 230VAC
	74085	EDC-OPS-1/230V	Pendant Mount Outdoor Dome Housing Tinted Bubble 6.8“, 230VAC
	74077	EDC-IPC-1/24V	Pendant Mount Indoor Dome Housing Clear Bubble 6.8“, 24VAC
	74075	EDC-IPS-1/24V	Pendant Mount Indoor Dome Housing Tinted Bubble 6.8“, 24VAC
	74076	EDC-OPC-1/24V	Pendant Mount Outdoor Dome Housing Clear Bubble 6.8“, 24VAC
	74078	EDC-OPS-1/24V	Pendant Mount Outdoor Dome Housing Tinted Bubble 6.8“, 24VAC
	74054	EDC-CMA2	Corner Mount Adapter for EDC-IPS/OPC Housings
	74074	EDC-RTB	Roof Mount Bracket for Fastrax Outdoor Housings (w./o. Dome Housing)
	74055	EDC-PM7	Pole Mount Adapter for EDC-IPS/OPC Housings, (50-140mm Pole)
	74090	EDC-RTB	Parapet and Roof Mount Bracket for Fastrax Housings (w./o. Dome Housing)
	74094	EDC-COAX	Coax Telemetry Board for VPT-41/42, EDC/EDMC Series. assembled
	74095	EDC-BPC	Protocol Converter BiPhase to RS-422, RS-485 for EDC Dome Cameras, 12VDC
	74089	EDC-CR1	Converter RS-232/RS-485, Repeater RS-485
	70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
	70445	NE-123	Voltage supply unit 230V/24VAC-2A, IP66

* Installation by technical service necessary

Plug & Play
Vandalism-Proof Fix Domes

eneo VKC-1413/WDDG2

1/4“ Colour Dome Camera, Surface Mount with F2.0/2.6-5.6mm Lens, 12VDC, 380TVL

- For Wall and Drop-ceiling Mount
- Vandal and Tamper-Resistant
- Clear Lexan Bubble with Inner Liner
- 1/4“ CCD Colour Board Camera
- Integrated 2.6-5.6mm Varifocal Lens
- Resolution of 380 Horizontal Lines
- Automatic Shutter Control (AES)
- Automatic Gain Control (AGC)
- Back Light Compensation (BLC)
- Automatic White Balance (AWB)
- Manual 3-axis Camera Adjustment
- For Easy Indoor and Outdoor Installation

Art-No.: 91896

Protection against Vandalism

eneo vandalism-proof fix domes deliver clear images of events, even in highly vulnerable areas. The robust complete systems are ideal for surface, ceiling or wall installation both inside and outside (protection classification IPx5) – plus, they are easy and quick to install as they are preconfigured fully wired. A total of eighteen different camera/lens combinations satisfy all application requirements.

eneo VK-1320/WDDG1

1/3“ B/W Dome Camera, In-Ceiling Mount with 4-8mm Varifocal Lens, 12VDC, 380TVL

Art-No.: 91971

eneo VK-1320/WDDG2

1/3“ B/W Dome Camera, Drop-Ceiling Mount with 4-8mm Varifocal Lens, 12VDC, 380TVL

Art-No.: 91972

eneo VK-1318/WDDG1

1/3“ B/W Dome Camera, In-Ceiling Mount with 4-8mm Varifocal Lens, 12VDC, 600TVL

Art-No.: 91944

Vandalism-Proof Fix Domes

eneo VK-1318/WDDG2

1/3“ B/W Dome Camera, Surface Mount with 4-8mm Varifocal Lens, 12VDC, 600TVL

Art-No.: 91897

eneo VKC-144/WDDG1

1/4“ Colour Dome Camera,In-ceiling Mount with 3.6mm Lens, 12VDC, 380TVL

Art-No.: 91893

eneo VKC-144/WDDG2

1/4“ Colour Dome Camera, Drop Ceiling Mount with 3.6mm Lens, 12VDC, 380TVL

Art-No.: 91854

eneo VKC-1413/WDDG1

1/4“ Colour Dome Camera,In-ceiling Mount with F2.0/2.6-5.6mm Lens, 12VDC, 380TVL

Art-No.: 91895

eneo VKC-148/WDDG1

1/4“ Colour Dome Camera, In-Ceiling Mount, with 2.9mm Lens, 12VDC, 470TVL

Art-No.: 91894

eneo VKC-148/WDDG2

1/4“ Colour Dome Camera, Wall/Ceiling Mount, with 2.9mm Lens, 12VDC, 470TVL

Art-No.: 91861

eneo VKC-1414/WDDG1

1/4“ Colour Dome Camera,In-ceiling Mount with F1.2/3-9mm Lens, 12VDC, 330TVL

Art-No.: 91945

eneo VKC-1414/WDDG2

1/4“ Colour Dome Camera, Surface Mount with F1.2/3-9mm Lens, 12VDC, 330TVL

Art-No.: 91946

eneo VKC-1324/WDDG1

1/3“ Colour Dome Camera,In-ceiling Mount with F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 91947

eneo VKC-1324/WDDG2

1/3“ Colour Dome Camera, Surface Mount with F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 91948

eneo VKC-1326/WDDG1

1/3“ Day/Night Dome Camera, In-ceiling Mount, F1.3/3.8-9.5mm Lens, 12VDC,480TVL

Art-No.: 91949

eneo VKC-1326/WDDG2

1/3“ Day/Night Dome Camera, Surface Mount F1.3/3.8-9.5mm Lens, 12VDC, 480TVL

Art-No.: 91954

eneo VKC-1327/WDDG1

1/3“ Day/Night Dome Camera, In-ceiling
F1.3/3.8-9.5mm, Removable IR CF, 480TVL

Art-No.: 91955

eneo VKC-1327/WDDG2

1/3“ Day/Night Dome Camera, Surface Mnt.
F1.3/3.8-9.5mm, Removable IR CF, 480TVL

Art-No.: 91956

Overview Vandalism-Proof Fix Domes

Art-No.	Type	Brand	Sensor	Lens	CCD-Format	Resolution (TVL)	Sensitivity (Lux)	Supply Voltage	Protection Rating	Dimensions (HxWxD) mm
91971	VK-1320/WDDG1	eneo	B/W	F2.0-2.8/4-8mm	1/3“	380	0.3*/0.14**	12VDC	IPX5	120x120x92
91972	VK-1320/WDDG2	eneo	B/W	F2.0-2.8/4-8mm	1/3“	380	0.3*/0.14**	12VDC	IPX5	120x120x92
91944	VK-1318/WDDG1	eneo	B/W	F2.0-2.8/4-8mm	1/3“	600	2.1*/0.75**	12VDC	IPX5	120x120x92
91897	VK-1318/WDDG2	eneo	B/W	F2.0-2.8/4-8mm	1/3“	600	2.1*/0.75**	12VDC	IPX5	120x120x92
91893	VKC-144/WDDG1	eneo	Colour	F2.0/3.6mm	1/4“	380	3.5*/1.25**	12VDC	IPX5	120x120x92
91854	VKC-144/WDDG2	eneo	Colour	F2.0/3.6mm	1/4“	380	3.5*/1.25**	12VDC	IPX5	120x120x92
91895	VKC-1413/WDDG1	eneo	Colour	F2.0-2.7/2.6-5.6mm	1/4“	380	3.5*/1.25**	12VDC	IPX5	120x120x92
91896	VKC-1413/WDDG2	eneo	Colour	F2.6-5.6mm	1/4“	380	3.5*/1.25**	12VDC	IPX5	120x120x92
91894	VKC-148/WDDG1	eneo	Colour	F2.0/2.9mm	1/4“	470	1.75*/0.63**	12VDC	IPX5	120x120x92
91861	VKC-148/WDDG2	eneo	Colour	F2.0/2.9mm	1/4“	470	1.75*/0.63**	12VDC	IPX5	120x120x92
91945	VKC-1414/WDDG1	eneo	Colour	F1.2/3-9mm	1/4”	330	1.25*/0.7**	12VDC	IPX5	120x120x92
91946	VKC-1414/WDDG2	eneo	Colour	F1.2/3-9mm	1/4”	330	1.25*/0.7**	12VDC	IPX5	120x120x92
91947	VKC-1324/WDDG1	eneo	Colour	F1.3/3.8-9.5mm	1/3“	480	0.5*	12VDC	IPX5	120x120x92
91948	VKC-1324/WDDG2	eneo	Colour	F1.3/3.8-9.5mm	1/3“	480	0.5*	12VDC	IPX5	120x120x92
91949	VKC-1326/WDDG1	eneo	Colour/BW	F1.3/3.8-9.5mm	1/3“	480	0.005**	12VDC	IPX5	120x120x92
91954	VKC-1326/WDDG2	eneo	Colour/BW	F1.3/3.8-9.5mm	1/3“	480	0.005**	12VDC	IPX5	120x120x92
91955	VKC-1327/WDDG1	eneo	Colour/BW	F1.3/3.8-9.5mm	1/3“	480	0.5***	12VDC	IPX5	120x120x92
91956	VKC-1327/WDDG2	eneo	Colour/BW	F1.3/3.8-9.5mm	1/3“	480	0.5***	12VDC	IPX5	120x120x92

* measurement result, ** at F1,2, *** 0,5Lux (0,32Lux) bat colour ; 0,24Lux (0,15Lux) at B&W at F1,2 each (AGC-Turbo), measurement result

Accessories

Art-No.	Type	Description
74097	EDMC/CWB	Wall or Pendant Mount Kit for EDMC Dome Camera and WDDG-1 Series
74099	EDMC/H12-24	Low Voltage Heater Kit 12-24V/20W for Minitrax Series
71664	WDDG2/H12	Low Voltage Heater Kit 12V/12W for WDDG-2 housing
70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug
70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. Open Ends

Fixed Focal Length Lenses

Overview Fixed Focal Length Lenses

Art-No.	Type	Brand	CCD-Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	Mount	Screw-in Depth	Dimensions (LxDxR) mm
43134	F0216M	eneo	1/3“	manual	2.6mm	F1.6-C	93.8°	CS	5.5mm	34.7x34.5
47156	F0312M-NFS	eneo	1/3“	manual	2.8mm	F1.62-C	93.2°	CS	4.2mm	34.7x37
43202	F0412M1	eneo	1/3“	manual	4mm	F1.2	64°	CS	4.7mm	30.5x31
43135	F0412M	eneo	1/3“	manual	4mm	F1.2-C	64°	CS	5.1mm	33x32
45157	F0412M-NFS	eneo	1/3“	manual	4mm	F1.2-C	65.6°	CS	4.2mm	34.7x37
45158	F0612M-NFS	eneo	1/3“	manual	6mm	F1.2-C	46.5°	CS	4.2mm	34.7x37
43136	F0812M	eneo	1/3“	manual	8mm	F1.2-C	34.7°	CS	5.8mm	33x32
47159	F0812M-NFS	eneo	1/3“	manual	8mm	F1.2-C	34.8°	CS	4.2mm	34.7x37
43071	A0314M1	eneo	1/2“	manual	3.5mm	F1.4-C	103.6°	C	8.8mm	32x35
43069	A0414M1	eneo	1/2“	manual	4.5mm	F1.4-C	79°	C	8.2mm	32x35
43068	A0614M1	eneo	1/2“	manual	6mm	F1.4-C	57.3°	C	8.5mm	34.5x35
43067	A1214M1	eneo	1/2“	manual	12mm	F1.4-C	30°	C	6.8mm	26x35
43011	B0813M6	eneo	2/3“	manual	8mm	F1.3-C	58.8°	C	6.0mm	30x37
43095	B1614M4	eneo	2/3“	manual	16mm	F1.4-C	30°	C	6.0mm	26x37
43015	C2514M	eneo	1“	manual	25mm	F1.4-C	27°	C	6.5mm	29x46
43029	C5018M	eneo	1“	manual	50mm	F1.8-C	14.8°	C	4.2mm	49x44
47146	F0214NDDC	eneo	1/3“	DC	2.3mm	F1.4-360	111.9°	CS	4.0mm	43.2x37.5x25.5
47147	F0312NDDC-NFS	eneo	1/3“	DC	2.8mm	F1.2-360	93.2°	CS	4.2mm	43.2x37.5x25.5
47124	F0412NDDC	eneo	1/3“	DC	4mm	F1.2-125	64°	CS	5.2mm	33x34.5x23
47148	F0412NDDC-NFS	eneo	1/3“	DC	4mm	F1.2-360	65.6°	CS	4.2mm	34.7x34x24.5
47149	F0612NDDC-NFS	eneo	1/3“	DC	6mm	F1.2-260	46.5°	CS	4.2mm	34.7x34x24.5
47125	F0812NDDC	eneo	1/3“	DC	8mm	F1.2-125	34.7°	CS	5.5mm	33x34.5x23
47154	F0812NDDC-NFS	eneo	1/3“	DC	8mm	F1.2-280	34.5°	CS	4.2mm	34.7x34x24.5
47145	F1616NDDC	eneo	1/3“	DC	16mm	F1.6-360	17.6°	CS	4.0mm	29.5x37.3x25
43118	G0216NDDC	eneo	1/2“	DC	2.6mm	F1.6-360	116.5°	CS	5.0mm	33x34.5x23
47123	G0316NDDC	eneo	1/2“	DC	3.6mm	F1.6-125	99.2°	CS	4.5mm	33x34.5x23
47126	G0414NDDC	eneo	1/2“	DC	4.5mm	F1.4-125	79.6°	CS	4.5mm	33x34.5x23
47127	G0614NDDC	eneo	1/2“	DC	6mm	F1.4-125	58.3°	CS	4.5mm	33x34.5x23
47128	G1214NDDC	eneo	1/2“	DC	12mm	F1.4-125	30.4°	CS	4.5mm	33x34.5x23
47129	G1814NDDC	eneo	1/2“	DC	18mm	F1.4-125	19.9°	CS	3.5mm	36.5x42x30.5
47131	G3618NDDC	eneo	1/2“	DC	36mm	F1.8-125	10.6°	CS	3.5mm	36.5x42x30.5
43211	F0214NDAI	eneo	1/3“	AI	2.3mm	F1.4-360	111.9°	CS	4.0mm	43.2x37.5x25.5
43137	F0412NDAI	eneo	1/3“	AI	4mm	F1.2-125	64°	CS	5.2mm	33x34.5x23
43138	F0812NDAI	eneo	1/3“	AI	8mm	F1.2-125	34.7°	CS	5.5mm	33x34.5x23
43204	F1616NDAI	eneo	1/3“	AI	16mm	F1.6-360	17.6°	CS	4.0mm	29.5x37.3x25
43105	G0216NDAI	eneo	1/2“	AI	2.6mm	F1.6-360	116.5°	CS	5.0mm	33x34.5x23
43139	G0316NDAI	eneo	1/2“	AI	3.6mm	F1.6-125	99.2°	CS	4.5mm	33x34.5x23
43141	G0414NDAI	eneo	1/2“	AI	4.5mm	F1.4-125	79.6°	CS	4.5mm	33x34.5x23
43142	G0614NDAI	eneo	1/2“	AI	6mm	F1.4-125	58.3°	CS	4.5mm	33x34.5x23
43143	G1214NDAI	eneo	1/2“	AI	12mm	F1.4-125	30.4°	CS	4.5mm	33x34.5x23
43144	G1814NDAI	eneo	1/2“	AI	18mm	F1.4-125	19.9°	CS	3.5mm	36.5x42x30.5
43145	G3618NDAI	eneo	1/2“	AI	36mm	F1.8-125	10.6°	CS	3.5mm	36.5x42x30.5

Overview Varifocal Lenses

Art-No.	Type	Brand	CCD-Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	Mount	Scew-in Depth	Aspherical Technique	Dimensions (LxDxR) mm
43198	F02Z02M	eneo	1/3"	manual	1.8-3.6mm	F1.6-C	144.2°-79.4°	CS	3.5mm	–	51x37.5
43216	F03Z0310M	eneo	1/3"	manual	2.7-8mm	F1.0-C	100°-36.2°	CS	7.4mm	–	48.8x41.7
43128	F03Z02M	eneo	1/3"	manual	2.8-6mm	F1.2-C	88.7°-44.2°	CS	4.0mm	√	60x43
43212	F03Z04M	eneo	1/3"	manual	2.8-12mm	F1.4-C	97.4°-24.1°	CS	4.2mm	√	59.2x44
43219	F03Z2.710M	eneo	1/3"	manual	3-8mm	F1.0-C	91°-36°	CS	5.0mm	√	42x36
43205	F04Z03M	eneo	1/3"	manual	3.5-8mm	F1.4-C	73.8°-35°	CS	4.4mm	–	48.1x39.4
43162	F04Z02M	eneo	1/3"	manual	3.5-8mm	F1.4-C	77.6°-35.4°	CS	3.5mm	–	43.5x34
43217	F04Z0310M	eneo	1/3"	manual	3.5-10.5mm	F1.0-C	81.6°-27.2°	CS	7.4mm	–	48.8x41.7
43158	F05Z08M	eneo	1/3"	manual	5-40mm	F1.6-C	53.6°-6.5°	CS	4.0mm	–	72.5x42
43195	F05Z10M	eneo	1/3"	manual	5-50mm	F1.4-C	53.4°-5.3°	CS	4.0mm	√	59.2x41
43166	F05Z15M	eneo	1/3"	manual	5.5-82.5mm	F1.8-C	50.7°-3.1°	CS	4.0mm	–	82.5x48
43131	G04Z02M	eneo	1/2"	manual	4-10mm	F1.8-C	94.8°-37.3°	CS	4.5mm	–	49x38
47261	A06Z02M	eneo	1/2"	manual	6-12mm	F1.4-C	56.1°-29.5°	C	7.0mm	–	54.5x40
43225	G04Z03M	eneo	1/2"	manual	4.5-12.5mm	F1.2-C	81.3°-38.2°	CS	3.5mm	–	43.5x33.5
43209	K02Z03NDDC	eneo	1/4"	DC	2.2-5.8mm	F1.4-95	95.9°-37.1°	CS	6.0mm	–	40.7x35x26
43199	F02Z02NDDC	eneo	1/3"	DC	1.8-3.6mm	F1.6-360	144.2°-79.4°	CS	3.5mm	–	51x37.4x23.3
43129	F03Z02NDDC	eneo	1/3"	DC	2.8-6mm	F1.2-64	88.7°-44.2°	CS	4.0mm	√	60x43x37.5
43215	F03Z0310NDDC	eneo	1/3"	DC	2.7-8mm	F1.0-260	100°-36.2°	CS	7.4mm	–	48.8x38.5x26.5
43213	F03Z04NDDC	eneo	1/3"	DC	2.8-12mm	F1.4-260	97.4°-24.1°	CS	4.2mm	√	59.2x40x26.2
43222	F03Z2.710NDDC	eneo	1/3"	DC	3-8mm	F1.0-360	91°-36°	CS	5.0mm	√	42x33x25.5
43206	F04Z03NDDC	eneo	1/3"	DC	3.5-8mm	F1.4-360	73.8°-35°	CS	4.4mm	–	48.1x36x26
43163	F04Z02NDDC	eneo	1/3"	DC	3.5-8mm	F1.4-130	77.6°-35.4°	CS	3.5mm	–	43.5x33.5x23.3
43214	F04Z0310NDDC	eneo	1/3"	DC	3.5-10.5mm	F1.0-260	81.6°-27.2°	CS	7.4mm	–	48.8xs38.5x26.5
43159	F05Z08NDDC	eneo	1/3"	DC	5-40mm	F1.6-125	53.6°-6.5°	CS	4.0mm	–	72.5x42x27
43196	F05Z10NDDC	eneo	1/3"	DC	5-50mm	F1.4-64	53.4°-5.3°	CS	4.0mm	√	59.2x41x33.2
43224	F05Z20NDDC	eneo	1/3"	DC	5-100mm	F1.6-250	52.7°-2.8°	CS	4.0mm	–	93x48x31
43133	G04Z02NDDC	eneo	1/2"	DC	4-10mm	F1.8-125	94.8°-37.3°	CS	4.5mm	–	49x37x26
43226	G04Z03NDDC	eneo	1/2"	DC	4.5-12.5mm	F1.6-F260	81.3°-38.2°	CS	3.5mm	–	43.5x33.5x23.3
43247	G20Z05NDDC	eneo	1/2"	DC	20-100mm	F1.6-F250	18°-3.6°	CS	4.0mm	√	110x49x37.8
43156	F03Z02NDAI	eneo	1/3"	AI	2.8-6mm	F1.2-64	88.7°-44.2°	CS	4.0mm	√	60x43x37.5
43207	F04Z03NDAI	eneo	1/3"	AI	3.5-8mm	F1.4-360	73.8°-35°	CS	4.4mm	–	48.1x36x26
43164	F04Z02NDAI	eneo	1/3"	AI	3.5-8mm	F1.4-130	77.6°-35.4°	CS	3.5mm	–	43.5x33.5x23.3
43165	F05Z08NDAI	eneo	1/3"	AI	5-40mm	F1.6-125	53.6°-6.5°	CS	4.0mm	–	72.5x42x27
43197	F05Z10NDAI	eneo	1/3"	AI	5-50mm	F1.4-64	53.4°-5.3°	CS	4.0mm	√	59.2x41x37

Zoom Lenses

Overview Zoom Lenses

Art-No.	Type	Brand	CCD-Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	Zoom-factor	Mount	Screw-in Depth	Potentio-meter	Dimensions (LxDxR) mm
40860	B12Z06MG-1K	eneo	2/3"	manual	12.5-75mm	F1.6-C	38.7°-6.6°	6:1	C	4.0mm	–	100x55
47419	F06Z08NDDC	eneo	1/3"	DC	6-48mm	F1.2-250	44.3°-5.8°	8:1	CS	4.2mm	–	92x72x64
47421	F06Z08NDDCPO	eneo	1/3"	DC	6-48mm	F1.2-250	44.3°-5.8°	8:1	CS	4.2mm	√	92x72x64
41114	F06Z10NDDC-1	eneo	1/3"	DC	6-60mm	F1.4-190	43.4°-4.5°	10:1	CS	4.0mm	–	107.6x70x70
40231	F05Z30NDDC	eneo	1/3"	DC	5.5-165mm	F1.8-360	47.6°-1.7°	30:1	CS	4.0mm	–	167x80x87
40232	F05Z30NDDCPO	eneo	1/3"	DC	5.5-165mm	F1.8-360	47.6°-1.7°	30:1	CS	4.0mm	√	167x80x87
47417	G06Z12NDDC	eneo	1/2"	DC	6.5-78mm	F1.2-360	51.5°-4.8°	12:1	C/CS	6.5mm	–	128x82x103
47418	G06Z12NDDCPO	eneo	1/2"	DC	6.5-78mm	F1.2-360	51.5°-4.8°	12:1	C/CS	6.5mm	√	128x82x103
47422	A08Z08NDDC	eneo	1/2"	DC	8-64mm	F1.6-250	44°-5.8°	8:1	C	4.0mm	–	92x72x64
47423	A08Z08NDDCPO	eneo	1/2"	DC	8-64mm	F1.6-250	44°-5.8°	8:1	C	4.0mm	√	92x72x64
41113	A08Z10NDDC-1	eneo	1/2"	DC	8-80mm	F1.8-F230	44.1°-4.6°	10:1	C	4.0mm	–	107.6x70x70
40225	A08Z15NDDC	eneo	1/2"	DC	8-120mm	F1.8-360	43.6°-3°	15:1	C	4.0mm	–	128x79x70
40226	A08Z15NDDCPO	eneo	1/2"	DC	8-120mm	F1.8-360	43.6°-3°	15:1	C	4.0mm	√	128x79x70
40228	A08Z06NDDC	eneo	1/2"	DC	8.5-51mm	F1.2-360	40.8°-7.1°	6:1	C	8.0mm	–	100x79x63
40229	A08Z06NDDCPO	eneo	1/2"	DC	8.5-51 mm	F1.2-360	40.8°-7.1°	6:1	C	8.0mm	√	100x79x63
40235	A10Z30NDAI	eneo	1/2"	AI	10-300mm	F1.5-560	35.5°-1.25°	30:1	C	4.0mm	–	252x125x144.5
40236	A10Z30NDAIPO	eneo	1/2"	AI	10-300mm	F1.5-560	35.5°-1.25°	30:1	C	4.0mm	√	252x125x144.5

Overview High Sensitive Lenses

Art-No.	Type	Brand	CCD-Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	Mount	Screw-in Depth	Aspherical Technique	Dimensions (LxDxR) mm
43227	F0210NDDC-560	eneo	1/3“	DC	2.0mm	1.0-560	122.6°	CS	4.0mm	√	58.2x48x34
43228	G0210NDDC-560	eneo	1/2“	DC	2.6mm	1.0-560	122.8°	CS	4.0mm	√	55x54x34
43229	G0308NDDC-560	eneo	1/2“	DC	3.8mm	0.8-560	89.2°	CS	3.5mm	√	53x46x33
43231	G0608NDDC-560	eneo	1/2“	DC	6.0mm	0.8-560	56.7°	CS	3.5mm	√	43x46x33
43232	G0808NDDC-560	eneo	1/2“	DC	8.0mm	0.8-560	44.9°	CS	3.5mm	√	43x46x33
43233	G1208NDDC-560	eneo	1/2“	DC	12.0mm	0.8-560	30.5°	CS	3.5mm	√	43x46x33
43234	G0608NDAI-560	eneo	1/2“	AI	6mm	0.8-560	56.7°	CS	3.5mm	√	43x46x33
43235	G0808NDAI-560	eneo	1/2“	AI	8mm	0.8-560	44.9°	CS	3.5mm	√	43x46x33
43236	G1208NDAI-560	eneo	1/2“	AI	12mm	0.8-560	30.5°	CS	3.5mm	√	43x46x33

Overview Day/Night Lenses

Art-No.	Type	Brand	CCD-Format	Iris	Focal Length	Iris Range	Angle of View (horizontal)	Mount	Screw-in Depth	Dimensions (LxDxR) mm
47156	F0312M-NFS	eneo	1/3“	manual	2.8mm	F1.2-C	93.2°	CS	4.2mm	34.7x37∅
47157	F0412M-NFS	eneo	1/3“	manual	4mm	F1.2-C	65.6°	CS	4.2mm	34.7x37∅
47158	F0612M-NFS	eneo	1/3“	manual	6mm	F1.2-C	46.5°	CS	4.2mm	34.7x37∅
47159	F0812M-NFS	eneo	1/3“	manual	8mm	F1.2-C	34.5°	CS	4.2mm	34.7x37∅
47147	F0312NDDC-NFS	eneo	1/3“	DC	2.8mm	F1.2-250	93.2°	CS	4.2mm	34.7x34x24.5
47148	F0412NDDC-NFS	eneo	1/3“	DC	4mm	F1.2-250	65.6°	CS	4.2mm	34.7x34x24.5
47149	F0612NDDC-NFS	eneo	1/3“	DC	6mm	F1.2-250	46.5°	CS	4.2mm	34.7x34x24.5
47154	F0812NDDC-NFS	eneo	1/3“	DC	8mm	F1.2-250	34.5°	CS	4.2mm	34.7x34x24.5
43238	F03Z2.710DC-NFS	eneo	1/3“	DC	3-8mm	F1.0-240	91°-36°	CS	5.0mm	42x33x25.5
43237	F03Z04NDDC-NFS	eneo	1/3“	DC	2.8-11mm	F1.4-260	97.4°-26.2°	CS	4.2mm	59.2x40x26.2
43248	A04Z12NDDC-NFS	eneo	1/2“	DC	4-12mm	F1.4-250	93°-31.2°	CS	8.6mm	54x40x31
43239	A10Z04NDDC-NFS	eneo	1/2“	DC	10-40mm	F1.4-250	37.5°-9.2°	CS	4.2mm	62x43x31.1

Overview Lenses with IR Cut Filter

Art-No.	Type	Brand	CCD-Format	Iris Range	Focal Length	Angle of View (horizontal)	Zoom-factor	Mount	Screw-in Depth	Potentio-meter	Dimensions (LxDxR) mm
43192	G04Z02NDDC/IRSF	eneo	1/2“	4-10mm	F1.8-125	94.8°-37.3°	–	CS	4.5mm	–	49x37x26
43193	A06Z02NDDC/IRSF	eneo	1/2”	6-13mm	F1.8-180	60.3°-28.5°	–	C	9.3mm	–	45.1x39.5x26
40233	F06Z10NDDCPOIRS	eneo	1/3“	6-60mm	F1,6-360	44.2°-4.6°	10:1	CS	4.0mm	√	116.5x79x69
40223	A08Z15NDDCPOIRS	eneo	1/2“	8-120mm	F1.8-360	43.6°-3°	15:1	C	4.0mm	√	128x79x70

Lenses for Video Imaging

High-quality special lenses are needed in the image processing, quality assurance, production monitoring, process automation, metrology and identification fields. The key differentiations from normal lenses are:

- Low distortion
- High resolution
- Improved image properties for flair and contrast characteristics
- Compact design
- Fixing screws on the aperture and focus rings to ensure trouble-free usage even in the presence of vibrations and shaking.

The lenses are split into two categories to draw a simple distinction:

1. High-Resolution Lenses
For use on high-resolution cameras (> 400,000 pixels)
2. Megapixel Lenses
For use on super high-resol. cameras (> 1.3 million pixels)

Minimum Focusing Distance
The definition of the minimum focusing distance is the distance from the object to the tip of the lens, for which a focus ring can be used to make the object sharp (“close” setting).
Adapter rings (such as the VT Macro-Tubes) can be fitted to reduce the minimum focusing distance even further, to a limited extent.

Overview Lenses for Video Imaging

Art-No.	Type	Brand	CCD-Format	Iris Range	Focal Length	Angle of View (horizontal)	Mount	Distorsion %	MOD in m	Locking Knob for Iris/Focus	Resolution	Dimensions (LxD) mm
42005	B2514MV-MP	eneo	2/3“	25mm	F1.4-16	19.6°	C	-0.032	0.2	√	Megapixel	33x39.5
42008	B5028MV-MP	eneo	2/3“	50mm	F2.8-22	9.6°	C	-0.024	0.2	√	Megapixel	34x55
42085	B5528MA	eneo	2/3”	55mm	F2.8	9.2°	C	<1	0.14	√	High Res.	93x53
42091	E08Z10MA	eneo	1/3”	8.5-90mm	F2.5	31.3°-3.2°	C	k.A.	0.15	-	High Res.	134x60
42013	B12Z03MV-MP	eneo	2/3”	12-36mm	F2.8-16-C	41°-13.6°	C	+1.7 (Tele). -19 (Wide)	0.2 (Tele). 0.05 (Wide)	√	Megapixel	53x41.6
42012	B45Z03MV-MP	eneo	2/3”	45-160mm	F4.5-C	11.8°-2.78°	C	0.02*/1.78**	89.9	√	High Res.	79.5x36
47144	B18Z06MA1	eneo	2/3”	18-108mm	F2.5	34°-6°	C	k.A.	0.1	-	High Res.	172x62

* at 2/3“ and 0,3x magnification
** at 2/3“ and 1,0x magnification

eneo A0425S

F2.5/4mm Pinhole Lens straight, 1/2“ with C Mount

Art-No.: 43492

eneo B0828SAI-1

F2.8/8.5mm AI Pinhole Lens (straight), 2/3“, C Mount

Art-No.: 43353

Overview Pinhole Lenses

Art-No.	Type	Brand	CCD-Format	Focal Length	Iris Range	Angle of View (horizontal)	Zoomfactor	Mount	Screw-in Depth	Dimensions (LxD) mm
43492	A0425S	eneo	1/2“	4mm	F2.5-C	76.3°	–	C	6.0mm	87x33
43353	B0828SAI-1	eneo	2/3“	8.5mm	F2.8-360	55.4°	–	C	4.0mm	122x47

Lens Accessories

Lens Accessories

Art-No.	Type	Description
42087	2X-CON	Tele Converter 2x for 55mm Macro Lens
41233	1.5X-EX/CS	Focus Extender 1,5x, CS Mount
41232	2X-EX/CS	Focus Extender 2x, CS Mount
41231	2X-EX/C	Focal Extender 2x, C Mount
42246	CL10055	Close-up lens M55x0.75mm, 1000mm
42160	EXT-TUB	Set of Macro Tubes, 0,5/1/5/10/20mm Length, C/CS Mount
41715	LD-16N3	Lens Dummy, C Mount
43104	C/CS-MOUNT RING	Adapter Ring C/CS Mount
43221	N-PLUG/L MINI	4-pin AI/DC Mount Plug
43094	ACB	Auto Iris Control Box for DC Lenses
75791	ZFI/GN-1	Control Unit for Lens (Zoom, Focus, Iris), 230VAC

TOP DESIGN

eneo CANDID

eneo VHP-1

Candid Junior I Weatherproof Housing with Wall Mount WD-21

- Camera Weatherproof Housing (32x32mm Brd. Cameras)
- For Wall and Ceiling Mounting
- For Cameras with upto 24 V Power Supply
- Insulated Camera Mounting
- Cable Entry: M12x1.5
- Index of Protection: IP66/67
- Wall Bracket Included

Art-No.: 79498

eneo VHP-2

Candid Junior II weatherproof Housing with integrated Wall Mount, Folding Tube

- Camera Weatherproof Housing (32x32mm Brd. Cameras)
- For Universal Applications
- For Cameras with upto 24 V Power Supply
- Insulated Camera Mounting
- Protected Pan and Tilt Fixing Mechanism
- Index of Protection: IP 67

Art-No.: 79576

eneo VHU-165/24V

Candid weatherproof Housing (165mm), with Heater and Thermostat, 24VAC

Art-No.: 79549

eneo VHU-165/12V

Candid weatherproof Housing (165mm), with Heater and Thermostat, 12VDC

Art-No.: 79466

eneo VHU-260/230V

Candid weatherproof Housing (260mm), with Heater and Thermostat, 230VAC

Art-No.: 79493

CANDID Housings

eneo VHU-260/24V

Candid weatherproof Housing (260mm), with Heater and Thermostat, 24VAC

Art-No.: 79552

eneo VHU-260/12V

Candid weatherproof Housing (260mm), with Heater and Thermostat, 12VDC

Art-No.: 79467

eneo VHU/DP-165

Candid dustproof Housing (165mm)

Art-No.: 79481

eneo VHU/DP-260

Candid dustproof Housing (260mm)

Art-No.: 79482

Overview CANDID Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Heater	Scew Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight kg
79498	VHP-1	eneo	–	IP66/67	–	–	For cameras up to 32x32	55x55x132	0.25
79576	VHP-2	eneo	–	IP67	–	–	For cameras up to 32x32	55x55x204	0.45
79549	VHU-165/24V	eneo	24V	IP67	√	integrated	60x60x165	101x113x420	1.2
79466	VHU-165/12V	eneo	12V	IP67	√	integrated	60x60x165	101x113x420	1.2
79493	VHU-260/230V	eneo	230VAC	IP67	√	integrated	60x60x260	101x113x515	1.4
79552	VHU-260/24V	eneo	24V	IP67	√	integrated	60x60x260	101x113x515	1.2
79467	VHU-260/12V	eneo	12V	IP67	√	integrated	60x60x260	101x113x515	1.4
79481	VHU/DP-165	eneo	–	IP54	–	–	60x60x165	90x90x400	1.2
79482	VHU/DP-260	eneo	–	IP54	–	–	60x60x260	90x90x495	1.2

Accessories

Art-No.	Type	Description
79494	VHU-NT1	Power Supply for Candid Housing Series 230VAC/12VDC-14VAC (Camera/Heater)
79557	VHU-NT2	Power Supply for Candid Housing Series 230VAC/24VAC-24VAC (Camera/Heater)
79591	VHU-NT2/1	Power Transformer for Candid Dustproof Housing, 230V/24VAC
79499	VHU-AKS/12-24V	Connecting Cable Set 12VDC/24VAC/Video for Candid Housing
73546	VT-PM4	Pole Mount Adapter for VHU Housing Series (120-180mm Pole), RAL7035

eneo VHL-2ECA

Weatherproof Housing (260mm), with Heater, 230VAC

Art-No.: 79016

eneo VHL-2ECLA

Weatherproof Housing (260mm) with Heater RAL7032, 230VAC

Art-No.: 79477

eneo VHL/DP-2EC

Dustproof Housing (260mm)

Art-No.: 79006

Overview Compact Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Screw Terminal/ Thermostat	Heater	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight kg
79016	VHL-2ECA	eneo	230VAC	IP66	Zubehör	√	65x72x270	113x105x342	1.9
79477	VHL-2ECLA	eneo	230VAC	IP66	Zubehör	√	65x72x270	113x105x342	1.9
79006	VHL/DP-2EC	eneo	–	–	Zubehör	–	65x72x270	103x90x342	1.7

Accessories

Art-No.	Type	Description
73012	WD-14/MK	Wall Mount with Swivel Head for VHL Housing, black
73082	WD-14/MKL	Wall Mount with Swivel Head for Weatherproof Housings, RAL7032
79333	NE-104S	Power Supply 230VAC/12VDC(400mA) for VHL-Housing with Fuse, Regulated
79046	VHL-VHB/KV	Screw Terminal Board for VHL/VHB Housing
79274	VHL-VHB/KVS	Screw Terminal Board with Fuse for VHL/VHB Housings
71295	VHL/H220	Window Heater 110-265VAC for VHL-Housing
71626	VHL/H24	Window Heater 12-30VAC/VDC for VHL-Housing
79281	VHL-VHB-VHM/TH2	Thermostat Switch for VHL/VHB/VHM Housing

Medium Housings

eneo VHM/ECLKA-210

Weatherproof Housing (210mm) with Heater, Thermostat, CBD, RAL7032, 230VAC

Art-No.: 79543

eneo VHM/ECLKB-210

Weatherproof Housing (210mm) with Heater, Thermostat, CBD, RAL7032, 24VAC

Art-No.: 79555

eneo VHM/ECLKA

Weatherproof Housing (330mm) with Heater, Thermostat, CBD, RAL7032, 230VAC

Art-No.: 79404

eneo VHM/ECLKB

Weatherproof Housing (330mm) with Heater, Thermostat/CBD, RAL7032, 24VAC

Art-No.: 79428

eneo VHM/STBL-210

Weatherproof Housing (210mm) with Heater Thermostat, Connection Brd, RAL7032,24VAC

Art-No.: 79603

eneo VHM/STLA

Weatherproof Housing (330mm) with Heater, Thermostat, Connection Brd,RAL7032, 230VAC

Art-No.: 79405

eneo VHM/STLB

Weatherproof Housing (330mm) with Heater, Thermostat, Connection Brd, RAL7032, 24VAC

Art-No.: 79429

eneo VHM/ZLA

Weatherproof Housing (330), Central Plug, with 230V Heater, RAL7032

Art-No.: 79607

eneo VHM/ZLB

Weatherproof Housing (330), Central Plug, with 24V Heater, RAL7032

Art-No.: 79608

eneo VHM/ECLA-210

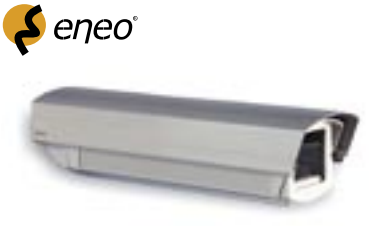
Weatherproof Housing (210mm) with Heater, RAL7032, 230VAC

Art-No.: 79416

eneo VHM/ECLB-210

Weatherproof Housing (210mm) with Heater, RAL7032, 24VAC

Art-No.: 79483



eneo VHM/ECLA

Weatherproof Housing (330mm) with Heater, RAL7032, 230VAC

Art-No.: 79374

eneo VHM/ECLB

Weatherproof Housing (330mm) with Heater, RAL7032, 24VAC

Art-No.: 79397

eneo VHM/DP-ECL210

Dustproof Housing (210mm), RAL7032

Art-No.: 79583

eneo VHM/DP-ECL

Dustproof Housing (330mm), RAL7032

Art-No.: 79366

Without Housing and Ceiling Mount

eneo VHM/PC-1

Plug-in shield for VHM/EC&ST Housing Series, 330mm

Art-No.: 79623

Overview Medium Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Heater	Plugable cable connection	Screw Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm
79543	VHM/ECLKA-210	eneo	230VAC	IP66	√	–	integrated	76.5x90.8x210	125x133x353
79555	VHM/ECLKB-210	eneo	24V	IP66	√	–	integrated	76.5x90.8x210	125x133x353
79404	VHM/ECLKA	eneo	230VAC	IP66	√	–	integrated	76.5x90.8x330	125x133x473
79428	VHM/ECLKB	eneo	24V	IP66	√	–	integrated	76.5x90.8x330	125x133x473
79603	VHM/STLB-210	eneo	24VAC	IP66	√	intern	integrated	76.5x90.8x330	125x133x353
79405	VHM/STLA	eneo	230VAC	IP66	√	intern	integrated	76.5x90.8x330	125x133x473
79429	VHM/STLB	eneo	24V	IP66	√	intern	integrated	76.5x90.8x330	125x133x473
79607	VHM/ZLA	eneo	230VAC	IP66	√	extern	Accessorie	76.5x90.8x330	125x133x473
79608	VHM/ZLB	eneo	24V	IP66	√	extern	Accessorie	76.5x90.8x330	125x133x473
79416	VHM/ECLA-210	eneo	230VAC	IP66	√	–	Accessorie	76.5x90.8x210	125x133x353
79483	VHM/ECLB-210	eneo	24V	IP66	√	–	Accessorie	76.5x90.8x210	125x133x353
79374	VHM/ECLA	eneo	230VAC	IP66	√	–	Accessorie	76.5x90.8x330	125x133x473
79397	VHM/ECLB	eneo	24V	IP66	√	–	Accessorie	76.5x90.8x330	125x133x473
79583	VHM/DP-ECL210	eneo	–	–	–	–	Accessorie	76.5x90.8x210	113x110x335
79366	VHM/DP-ECL	eneo	–	–	–	–	Accessorie	76.5x90.8x330	113x110x455

Accessories

Art-No.	Type	Description
79623	VHM/PC-1	Plug-in shield for VHM/EC&ST Housing Series, 330mm
73064	WD-16/MK	Wall Mount with Swivel Head for VHB/VHM Weatherproof Housings, RAL7032
79364	NE-112	PTC Window Heater 100-240VAC for ESH Housing Series w. Thermostat
79423	NE-112/2	Power Supply 230VAC/12VDC (600mA), Regulated, 24VAC (1000mA) f. VHM Housing
79491	NE-112/AC24V	Power Supply 230VAC/24VAC (600mA) for VHM Housing
79369	VHM/KVS	Mains Distributor with Fuse for VHM Housing
79609	VHM/KV1	Screw Terminal Board with Thermostat for VHM/Z Housing
72501	PTB-1	Protocol Translator Board, 12VDC for Build-in VHM/ST Housing Series
71301	VHM/H220	VHM Window Heater 110-265VAC (PTC Element)
71601	VHM/H24	VHM Window Heater 12-30V (PTC Element)
71602	VHM/H24WID	VHM Resistor Low Voltage Heater 24V/6W, interchangeable to 12V
79281	VHL-VHB-VHM/TH2	Thermostat Switch for VHL/VHB/VHM Housing

System Housings

eneo VHM/ZLKCB

Weatherproof Housing (330), 24V Heater, KV-1, Internal Pre-wiring, RAL7032

- Camera Weatherproof Housing 330mm w. Screen Heater
- Fold-down Housing Body
- 4 Levels of Camera Height Adjustment
- Insulated Camera Mounting
- External 30-pin Plug Connector
- Cable Connection with Metal Gland M25x1.5mm
- Pre-wired for 24VAC Supply via VPT-41/VPT-42
- With Screw Terminal Board VHM/KV1
- Prepared for easy Camera and Lens Assembly
- Viewing Screen with „Clear-Shield“ Technology
- Housing Surface: RAL7032
- Option: P/T Head Connection Cables

Art-No.: 79619

Our successful VHM Weatherproof Housings are now also available in a model with a central plug and internal precabling. The 330mm VHM/ZLKCB is set up to make installation of 24VAC cameras with a zoom lens as simple as possible, and it has a screen heater. 24V operation over a pan/tilt head from the VPT-41/VPT-42 series is also preconfigured. A pan/tilt head connection cable is available as an option.

As with all VHM series housing, the viewing screen of this model is also coated with “Clear Shield” technology that prevents corrosion and increases the screen recycling cycles. It is also UV-resistant, colour-neutral and fully light transmissive (100% light transmission).

eneo VHM/ZLA

Weatherproof Housing (330), Central Plug with 230V Heater, RAL7032

Art-No.: 79607

eneo VHM/ZLB

Weatherproof Housing (330), Central Plug with 24V Heater, RAL7032

Art-No.: 79608

Overview System Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Heater	Plugable cable connection	Screw Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxBxT) mm
79607	VHM/ZLA	eneo	230VAC	IP66	√	extern	Accessorie	76.5x90.8x330	125x133x473
79608	VHM/ZLB	eneo	24V	IP66	√	extern	Accessorie	76.5x90.8x330	125x133x473
79619	VHM/ZLKCB	eneo	24V	IP66	√	extern	integrated	76.5x90.8x330	125x133x473

Accessories

Art-No.	Type	Description
79615	VHM/Z KIT	Modification Kit for VHM-EC Housing Series to Plugable Central Connection
79617	VHM/ZB-VPT41	Connection Cable VHM/ZLB to VPT-41, 0.35m
79618	VHM/ZB-VPT42	Connection Cable VHM/ZLB to VPT-42, 0.35m
79609	VHM/KV1	Screw Terminal Board with Thermostat for VHM/Z Housing
73064	WD-16/MK	Wall Mount with Swivel Head for VHB/VHM Weatherproof Housings, RAL7032
79364	NE-112	Power Supply 230VAC/12VDC (600mA) for VHM Housing, Regulated
79423	NE-112/2	Power Supply 230VAC/12VDC (600mA), Regulated, 24VAC (1000mA) f. VHM Housing
79491	NE-112/AC24V	Power Supply 230VAC/24VAC (600mA) for VHM Housing
87404	MCAB-1	Camera/VPT Connecting Cable for Video, Mains, RS-Control and Ethernet, 1 Meter

eneo VHB-1ECLA

Weatherproof Housing (360mm) with Heater, RAL7032, 230VAC

Art-No.: 79478

eneo VHB-2ECLA

Weatherproof Housing (460mm) with Heater, RAL7032, 230VAC

Art-No.: 79479

eneo VHB-2ECLKA

VHB/EC housing 450mm w.sunsh./230V heater/ KVS/Th.

Art-No.: 79406

eneo VHB-2ECLKB

VHB/EC housing 450mm w.sunsh./24V heater/ KV/Ther.

Art-No.: 79433

Overview XL Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Heater	Screw Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight kg
79478	VHB-1ECLA	eneo	230VAC	IP66	√	Accessorie	80x106x360	150x146x485	4.9
79479	VHB-2ECLA	eneo	230VAC	IP66	√	Accessorie	80x106x460	150x146x585	5.3
79406	VHB-2ECLKA	eneo	230VAC	IP66	√	integrated	80x106x460	150x146x585	5.4
79433	VHB-2ECLKB	eneo	24V	IP66	√	integrated	80x106x460	150x146x585	5.4

Accessories

Art-No.	Type	Description
73064	WD-16/MK	Wall Mount with Swivel Head for VHB/VHM Weatherproof Housings, RAL7032
79334	NE-105S	Power Supply 230VAC/12VDC (600mA) for VHB-Housing with Fuse, Regulated
79046	VHL-VHB/KV	Screw Terminal Board for VHL/VHB Housing
79274	VHL-VHB/KVS	Screw Terminal Board with Fuse for VHL/VHB Housings
71296	VHB/H220	Window Heater 110-265VAC for VHB Housing
71627	VHB/H24	Window Heater 12-30VAC/VDC for VHB Housing
79281	VHL-VHB-VHM/TH2	Thermostat Switch for VHL/VHB/VHM Housing
77372	VHB-W/230V	High Pressure Screen Washer for VHB Housing

Stainless Steel Housings

eneo ESH-20V

Stainless Steel Housing AISI 316L, 320mm, Water Cooled, IP68, 2x M16x1.5

- Stainless Steel Housing according to EN10088
- Integrated Air Barrier for Window Clearing
- Air and Liquid Hose Connections
- Internal Dimensions: 80x8x0x320mm
- Window Diameter: 96mm
- 2 Cable Entries M16x1.5mm
- Polished Surface / Protection Rating: IP68
- Temperature Range -20°C to +50°C, depend on Camera
- Envir. Temperature upto 400°C at 7.5lt. water flow
- Option: Wall bracket/Sunshield/Heaters/PSU's
- Option: IR Filter/Special Window Screens/Airfilter
- Recommended Connection Cable: MCAB-1, #87404

Art-No.: 79625

Without Sunshield

eneo ESH-10

Stainless Steel Weatherproof Housing, AISI 316L, IP68, 2x M16x1.5

- Stainless Steel Housing according to EN10088
- Internal Dimensions: 80x8x0x320mm
- Window Diameter: 90mm
- 2 Cable Entries M16x1.5mm
- Housing Surface: Polished
- Index of Protection: IP68
- Temperature Range -20°C to +50°C, depend on Camera
- Option: Wall bracket/Sunshield/Heaters/PSU's
- Recommended Connection Cable: MCAB-1, #87404

Art-No.: 79628

Overview Stainless Steel Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Heater/ PSU´s	Connection Distributor	Inside Dimensions (HxWxD) mm	Outisde Dimensions (HxWxD) mm	Weight kg
79628	ESH-10	eneo	Accessorie	IP68	option	integrated	80x80x320	150x146x485	4.9
79625	ESH-20	eneo	Accessorie	IP68	option	integrated	80x80x320	150x146x585	5.3

Accessories

Art-No.	Type	Description
79629	ESH/WB	Wall Mount with Swivel Head for ESH Housing Series, AISI 316L
79631	ESH/SH	Sunshield for ESH-10 Stainless Steel Housing, AISI 316L
79632	ESH/AIR FILTER	Air Filter Set for ESH-20 Stainless Steel Housing
79633	ESH/HT12-24	PTC Window Heater 12-24V for ESH Housing Series w. Thermostat
79634	ESH/HT100-240	PTC Window Heater 100-240VAC for ESH Housing Series w. Thermostat
79635	ESH/NE12VDC	Power Supply Unit 230V/12VDC(400mA) for ESH Housing Series
79636	ESH/NE24VAC	Power Supply Unit 230V/24VAC(400mA) for ESH Housing Series

eneo Stainless Steel Housings for the Toughest Ambient Conditions

The AISI 316L Polished Stainless Steel Housing of the new eneo ESG series are ideal for the toughest ambient conditions, such as in industrial plants. The housings are protected compliant with the highest class: IP68 stands for full protection against dust and submersion in water. They can be used in the -20° to +50°C temperature range and are ideal for camera installations sized up to 320 X 80mm with a maximum height of 80mm. Numerous accessories are available as optional extras: wall mount, heaters, sunshield, power packs, infrared filters, special window screens and air filters. Integral air barriers on the ESH-20 ensure that the front glass is always kept clear and not covered by dust and dirt.

eneo VHK-W/ECKA

Weatherproof Housing (270mm) w. Heater Thermostat, Wallbracket, RAL9002, 230VAC

Art-No.: 79559

eneo VHK-DP/EC

Dustproof Housing (270mm) with Wallbracket, RAL9002

Art-No.: 79558

eneo VHK-W/STKA

Weatherproof Housing (270mm) with Heater Thermostat, Wallbracket, RAL9002, 230VAC

Art-No.: 79564

eneo VHK-WWA

VHK housing 270m with Sunshield, Heater 230VAC, Wallbracket, RAL9002

Art-No.: 79597

eneo VTL-W/N2

Weatherproof Housing (300mm) with Heater/Thermostat, 230VAC

Art-No.: 79484

eneo VTL-D/N2

Dustproof Housing (300mm) with Ceiling Mount

Art-No.: 79485

eneo VTL-WWA

Weatherproof Housing (300mm) with Heater Thermostat, Wallbracket, RAL9002, 230VAC

Art-No.: 79488

eneo VTL-WWB

Weatherproof Housing (300mm) with Heater Thermostat, Wallbracket, RAL9002, 24VAC

Art-No.: 79544

eneo VTL-WWC

Weatherproof Housing (300mm) with Heater Thermostat, Wallbracket, RAL9002, 12VDC

Art-No.: 79553

Economy Housings

eneo VTL-DPW

Dustproof Housing (300mm) with Wallbracket, RAL9002

Art-No.: 79489

Overview Economy Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Hidden Cable Management	Heater	Screw Terminal/ Thermostat	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight kg
79559	VHK-W/ECKA	eneo	230VAC	IP66	–	√	integrated	75x75x270	135x127x410	2
79558	VHK-DP/EC	eneo	230VAC	IP66	–	–	integrated*	75x75x270	115x120x360	1.2
79564	VHK-W/STKA	eneo	230VAC	IP66	√	√	integrated	75x75x270	135x127x424	2
79597	VHK-WWA	eneo	230VAC	IP66	√	√	integrated	75x75x270	135x127x424	2
79484	VTL-W/N2	eneo	230VAC	IP66	–	√	integrated	86x105x300	131x131x395	2.5
79485	VTL-D/N2	eneo	–	IP66	–	–	integrated*	86x105x300	120x129x344	2.4
79488	VTL-WWA	eneo	230VAC	IP66	√	√	integrated	86x105x300	120x131x445	4
79544	VTL-WWB	eneo	24V	IP66	√	√	integrated	86x105x300	120x131x445	4
79553	VTL-WWC	eneo	12V	IP66	√	√	integrated	86x105x300	120x131x445	4
79489	VTL-DPW	eneo	–	IP66	√	–	integrated*	86x105x300	120x129x422	3.8

* Only Screw Terminal

Accessories

Art-No.	Type	Description
79568	NE-119/24V	Power Supply 230V/24VAC(400mA) for VHK-W/EC Housing
79606	NE-126/12V	Power Supply 230V/12VDC (1.0A) for VHK-X/EC Housings, Regulated
79575	NE-121/24V	Power Supply 230V/24VAC(400mA) for VHK-W/ST Housings
79574	NE-121/12V	Power Supply 230V/12VDC(400mA) for VHK-W/ST Housings, Regulated
79572	VHK-BLS/230V	Blower Set for VHK-W/STKA Housing, 230VAC
79604	SU-6	Camera Height Adjustment Kit f. Housing Series VHK (3 Diff. Slides and Screws)
79790	WD-7/MK	Wall Mount with Swivel Head for Outdoor Housings VTL Series, black
79415	NE-115	Power Supply 230VAC/12VDC (400mA) for all VTL Housings, Regulated
79614	NE-127/12V	Power Supply 230V/12VDC (1.0A) for Standard VTL-W/D N2 Housings
79486	VTL/H230-1	Window Heater 230VAC for VTL Housing
79487	VTL/H24-1	Window Heater 24VAC for VTL Housing
79592	PM-6S	Pole Mount Adapter for 1 Wall Mount, (50-140mm Pole), RAL9002
79593	PM-6D	Pole Mount Adapter for 2 Wall Mounts, (50-140mm Pole), RAL9002

eneo VDW-1T/230V

Dome Outdoor Housing with Heater, Blower, Tinted Bubble, RAL9016, 230VAC

Art-No.: 77014

eneo VDW-1C/230V

Dome Outdoor Housing w. Heater, Blower, Clear Bubble, RAL9016, 230VAC

Art-No.: 77005

eneo VDW-1T/24V

Dome Outdoor Housing with Heater, Blower, Tinted Bubble, RAL9016, 24VAC

Art-No.: 77013

eneo VDW-1C/24V

Dome Outdoor Housing w. Heater, Blower, Clear Bubble, RAL9016, 24VAC

Art-No.: 77004

For Outdoor Installation of Domes and Network Cameras

The eneo VDW-1 dome housing series provides perfect weather protection and is ideal for mounting dome cameras and network cameras. The removable dome housing provides simple and easy access for mounting the camera. The VDW-1 series features a powerful, thermostatically controlled heater and fan as standard, which permits the installed camera to operate at ambient temperatures as low as -20°C. The VDW-1 series is also available with a clear acrylic dome without transmission loss or a colour dome. Mounting arm VDW-1/WM is available for wall mounting and flange plate VDW-1/DFP for ceiling mounting, both mounts have concealed cable ducting. Additional optional extras include the VDW-1/WebKit voltage converter and assembly kits as well as mast and corner mounting sets.

Overview Dome Housings

Art-No.	Type	Brand	Supply Voltage	Protection Rating	Bubble Size	Heater	Built-in Height max. mm	Outside Dimensions (HxWxD) mm	Weight
77014	VDW-1T/230V	eneo	230VAC	IP66	9“	√	190	300x250x250	3.4
77005	VDW-1C/230V	eneo	230VAC	IP66	9“	√	190	300x250x250	3.4
77013	VDW-1T/24V	eneo	24V	IP66	9“	√	190	300x250x250	3.4
77004	VDW-1C/24V	eneo	24V	IP66	9“	√	190	300x250x250	3.4

Accessories

Art-No.	Type	Description
77012	VDW-1/JVC-NETKI	Mounting Kit for Use of JVC Web Cameras in Dome Outdoor Housing VDW
77031	VDW-1/WEBGATE-K	Installation Kit for Webgate SPD-160 including DC Change
77015	VDW-1/DFP	Ceiling Mount Adapter for VDW-1 Series
77011	VDW-1/WM	Wall Mount for Dome Outdoor Housing VDW, RAL9016
73042	CMA-1	Corner Mount Adapter for Wall Brackets WD-2N and VDW-1/WM, RAL7032
73093	PM-5	Pole Mount Kit for VDW-1, WD-15/16 Serie RAL7032

Board Camera Housings

eneo EMG-1

Corner Mount Housing for Board Cameras Pantone Coolgray 1C

Art-No.: 71497

eneo WDG-1

Wall/Ceiling Mount Housing for Board Cameras, Pantone Coolgray 1C

Art-No.: 71492

eneo WDDG-2

Dome Surface Mount Housing for Board Camera, Pantone Coolgray 1C

Art-No.: 71494

eneo WDDG-1

Dome Wall/Ceiling Flush Mount Housing for Board Cameras, Pantone Coolgray 1C

Art-No.: 71493

eneo EMG-2

Dome Corner Mount Housing for Board Cameras, Pantone Coolgray 1C

Art-No.: 71566

Overview Board Camera Housings

Art-No.	Type	Brand	Supply Voltage	Bubble Size	For	Inside Dimensions (HxWxD) mm	Outside Dimensions (HxWxD) mm	Weight
71497	EMG-1	eneo	–	–	Board Cameras	65x42x42	120x105x124	560g
71566	EMG-2	eneo	–	3.85”	Board Cameras	60x42x42	100x98	450g
71492	WDG-1	eneo	–	–	Board Cameras	65x42x42	120x104x80	500g
70753	VT-DIT 10	eneo	–	10“	4 Board Cameras max.	40 (depth)	173x254x254	1.4kg
71493	WDDG-1	eneo	–	3.4”	Board Cameras	65x42x42	120x120x92	600g
71494	WDDG-2	eneo	–	3.4”	Board Cameras	65x42x42	120x120x92	720g

Accessories

Art-No.	Type	Description
71664	WDDG2/H12	Low Voltage Heater Kit 12V/12W for WDDG-2 housing
74097	EDMC/CWB	Wall or Pendant Mount Kit for EDMC Dome Camera and WDDG-1 Series

eneo WD-14/MK

Wall Mount with Swivel Head for VHL Housing, black

Art-No.: 73012

eneo WD-14/MKL

Wall Mount with Swivel Head for Weatherproof Housings, RAL7032

Art-No.: 73082

eneo WD-15/MK

Wall Mount with Swivel Head for VHB Housing, black

Art-No.: 73013

eneo WD-16/MK

Wall Mount with Swivel Head for VHB/VHM Weatherproof Housings, RAL7032

Art-No.: 73064

eneo WD-5/MK

Wall Mount with Swivel Head for weatherproof Housing, black

Art-No.: 79750

eneo WD-20/MK

Wall Mount with Swivel Head for VHL/VTL Housing, IR LED Illuminators, black

Art-No.: 70694

eneo WD-7/MK

Wall Mount with Swivel Head for Outdoor Housings VTL Series, black

Art-No.: 79790

eneo WD-7/MK RAL7032

Wall Mount with Swivel Head for Outdoor Housings, RAL7032

Art-No.: 79792

eneo WD-2N/MK

Wall Bracket with Swivel Head RAL7032

Art-No.: 73011

Mounts for Housings

eneo MK-3

Pole Bracket, RAL7032 with Swivel Head for Weatherproof Housings,120-180mm Pole

Art-No.: 73045

eneo DH-5

Ceiling Bracket with adjustable Housing, Mount Angle, RAL7032

Art-No.: 73094

eneo PM-6S

Pole Mount Adapter for 1 Wall Mount, (50-140mm Pole), RAL9002

Art-No.: 79592

eneo PM-6D

Pole Mount Adapter for 2 Wall Mounts, (50-140mm Pole), RAL9002

Art-No.: 79593

eneo GK-2/N

Swivel Head, RAL7032

Art-No.: 73014

Overview Mounts for Housings

Art-No.	Type	Brand	Mounting Distance/Hight	Mounting	Load Capacity	Material	Colour	Weight
73012	WD-14/MK	eneo	220mm	Wall	5kg	Aluminium	black	1.0kg
73082	WD-14/MKL	eneo	220mm	Wall	5kg	Aluminium	light grey, RAL 7032	1.0kg
73013	WD-15/MK	eneo	300mm	Wall	8kg	Aluminium	black	1.3kg
73064	WD-16/MK	eneo	300mm	Wall	8kg	Aluminium	light grey, RAL 7032	1.3kg
79750	WD-5/MK	eneo	265mm	Wall	5kg	Aluminium	black	1.0kg
70694	WD-20/MK	eneo	190mm	Wall	5kg	Aluminium	black	465g
79790	WD-7/MK	eneo	300mm	Wall	5kg	Aluminium	black	1.0kg
79792	WD-7/MK RAL7032	eneo	300mm	Wall	5kg	Aluminium	light grey, RAL 7032	1.0kg
73011	WD-2N/MK	eneo	345mm	Wall	8kg	Steel	light grey, RAL 7032	3.5kg
73045	MK-3	eneo	180mm	Pole	5kg	Steel	light grey, RAL 7032	920g
73094	DH-5	eneo	312mm	Ceiling	9kg	Aluminium	light grey, RAL 7032	2.1kg
79592	PM-6S	eneo	50-140mm Pole-∅	Pole	10kg	Aluminium	light grey, RAL 7032	1.0kg
79593	PM-6D	eneo	50-140mm Pole-∅	Pole	15kg	Aluminium	light grey, RAL 7032	1.0kg

Accessories

Art-No.	Type	Description
73042	CMA-1	Corner Mount Adapter for Wall Brackets WD-2N and VDW-1/WM, RAL7032
79613	CMA-2	Corner Mount Adapter for Wall Brackets WD-5, WD-7, VTL-WW, VHK-WW, RAL9002
73093	PM-5	Pole Mount Kit for VDW-1, WD-15/16 Serie RAL7032
73014	GK-2/N	Swivel Head, RAL7032
79350	DNK	Swivel Head, black

eneo VPT-40/230V

Pan/Tilt Head 230VAC, RAL7032

Art-No.: 73206

eneo VPT-40/230V-POT

Pan/Tilt Head with Potentiometer, 230VAC, RAL7032

Art-No.: 73208

eneo VPT-40/230VHZ

Pan/Tilt Head with Heater 230VAC, RAL7032

Art-No.: 73224

eneo VPT-40/230VAP

Pan/Tilt Head with Autopan, 230VAC, RAL7032

Art-No.: 73219

eneo VPT-40/24V

Pan/Tilt Head 24VAC, RAL7032

Art-No.: 73205

eneo VPT-40/24V-POT

Pan/Tilt Head with Potentiometer 24VAC, RAL7032

Art-No.: 73207

Overview P/T Heads

	Art-No.	Type	Brand	Supply Voltage	Load Capacity	Protection Rating	Rotation Range (H/V)	Autopan	Potentio-meter	Heater	Weight kg	Dimensions (HxWxD) mm
	73206	VPT-40/230V	eneo	230VAC	20kg	IP66	360°/ ±90°	–	–	–	6.5	211x154x336
	73208	VPT-40/230V-POT	eneo	230VAC	20kg	IP66	360°/ ±90°	–	√	–	6.5	211x154x336
	73224	VPT-40/230VHZ	eneo	230VAC	20kg	IP66	360°/ ±90°	–	–	√	6.5	211x154x336
	73219	VPT-40/230VAP	eneo	230VAC	20kg	IP66	360°/ ±90°	√	–	–	6.5	211x154x336
	73205	VPT-40/24V	eneo	24VAC	20kg	IP66	360°/ ±90°	–	–	–	6.5	211x154x336
	73207	VPT-40/24V-POT	eneo	24VAC	20kg	IP66	360°/ ±90°	–	√	–	6.5	211x154x336
not illustr.	**73223**	VPT-40/24VHZ	eneo	24VAC	20kg	IP66	360°/ ±90°	–	–	√	6.5	211x154x336
not illustr.	**73218**	VPT-40/24VAP	eneo	24VAC	20kg	IP66	360°/ ±90°	√	–	–	6.5	211x154x336

Accessories

Art-No.	Type	Description
73229	VPT-40/230VHZ-K	Heating Kit for VPT-40/230VAC
73228	VPT-40/24VHZ-K	Heating Kit for VPT-40/24VAC
73226	VPT-40/230VAP-K	Autopan Kit for VPT-40/230VAC
73225	VPT-40/24VAP-K	Autopan Kit for VPT-40/24VAC
77488	VPT/IRB-4L	L-Bracket for VPT-40/41/42 RAL7032
77489	VPT/IRB-4T	T-Bracket for VPT-40/41/42 RAL7032
70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
70445	NE-123	Voltage supply unit 230V/24VAC-2A, IP66
75354	PTZF/G-EC	Control Unit for Pan/Tilt Head and Lens, 24VAC with Power Supply, RAL7032
75341	PTZF/GN-1	Control Unit for Pan/Tilt Head and Lens 230VAC, RAL7032
75321	PTZFI/GN-1	Control Unit for Pan/Tilt Head and Lens (Zoom, Focus and Iris), 230VAC, RAL7032

* Installation by technical service necessary

P/T Heads with Telemetry

eneo VPT-41RSVT-PO

Pan/Tilt Head with Receiver Board (RS) and Potentiometer, 24VAC, RAL7032

- 20 kg Load Capacity
- Supply Voltage: 24 VAC
- Built-in Receiver/Driver Board (VT RS-485 Prot.)
- Backlash: <0,2°
- High Torques
- Potentiometers on Both Axes
- Rugged Housing
- No Maintenance Required
- Protection Rating: IP 66
- Option: Heaters

Art-No.: 73259

eneo VPT-42RSVT-PO1

Pan/Tilt Head with Receiver Board RS-485 and Potentiometer, 24VAC, RAL7032

- 12 kg Load Capacity
- Stepper Motors Included
- Max. Speed: 32°Sec.
- Built-in R/D Board (VT RS-485 Protocol)
- Supply voltage: 24 VAC
- Backlash: <0,2°
- Potentiometers on Both Axes
- Protection Rating: IP 66
- Option: Heaters

Art-No.: 73564

Overview P/T Heads with Telemetry

	Art-No.	Type	Brand	Supply Voltage	Load Capacity	Protection Rating	Rotation Range (H/V)	Potentio-meter	Heater	Interface	Weight kg	Dimensions (HxWxD) mm
	73259	VPT-41RSVT-PO	eneo	24VAC	20kg	IP66	360°/ ±90°	√	–	√ *	7	211x168x336
not illustr.	73729	VPT-41RSP-PO	eneo	24VAC	20kg	IP66	360°/ ±90°	√	–	√ **	7	211x168x336
	73564	VPT-42RSVT-PO1	eneo	24VAC	12kg	IP66	360°/ ±90°	√	–	√ *	7,5	211x168x336
not illustr.	73728	VPT-42RSP-PO	eneo	24VAC	12kg	IP66	360°/ ±90°	√	–	√ **	7,5	211x168x336

* RS-485 Interface - VT protocol, other protocols upon request
** RS-422 Interface - Pelco D and P protocol

Accessories

Art-No.	Type	Description
73296	VPT-41-42/HZ-K	Heating Kit for VPT-41/MC-RS and VPT-42/MC-RS
77488	VPT/IRB-4L	L-Bracket for VPT-40/41/42 RAL7032
77489	VPT/IRB-4T	T-Bracket for VPT-40/41/42 RAL7032
70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
70445	NE-123	Voltage supply unit 230V/24VAC-2A, IP66
73497	VPT-42RS/SS	Control Software Vtrans for VPT-42RS Win98, 2000 and XP
75354	PTZF/G-EC	Control Unit for Pan/Tilt Head and Lens, 24VAC with Power Supply, RAL7032
75341	PTZF/GN-1	Control Unit for Pan/Tilt Head and Lens 230VAC, RAL7032
75321	PTZFI/GN-1	Control Unit for Pan/Tilt Head and Lens (Zoom, Focus and Iris), 230VAC, RAL7032
75201	MTC-1	Matrix, Multiplexer and Telemetry Keyboard with Joystick, RS-485 Control
74094	EDC-COAX	Coax Telemetry Board for VPT-41/42, EDC/EDMC Series. assembled

* Installation by technical service necessary

eneo WD-2N

Wall Bracket for Pan/Tilt Heads VPT-40/41/42, RAL7032

Art-No.: 73008

eneo MK-1N

Pole Bracket for Pan/Tilt Heads (120-180mm Mast), RAL7032

Art-No.: 73009

eneo MK-2

Pole Column Spacer for Pan/Tilt Heads, 200mm Height, RAL7032

Art-No.: 73108

eneo CMA-1

Corner Mount Adapter for Wall Brackets WD-2N and VDW-1/WM, RAL7032

Art-No.: 73042

Overview Mounts for P/T Heads

Art-No.	Type	Brand	Mounting Distance/Height	Mounting	Load Capacity	Material	Colour	Weight
73008	WD-2N	eneo	345mm	Wall	20kg	Steel	RAL 7032	2.3kg
73009	MK-1N	eneo	350/300mm	Pole bracket	15kg	Steel	RAL 7032	3kg
73108	MK-2	eneo	200mm	Pole bracket	20kg	Steel	RAL 7032	2.3kg

Accessories

Art-No.	Type	Description
73042	CMA-1	Corner Mount Adapter for Wall Brackets WD-2N and VDW-1/WM, RAL7032

Infra-Red LED Illuminators

Overview Infra-Red LED Illuminators

Art-No.	Type	Brand	Supply Voltage	Power Consumption	Illumination Range	Filter	Horiz. Anlge of Illumination	Integral Twilight Switch	Dimensions (HxWxD)
73826	WFL-II/LED-15W	eneo	12VDC	15W	15m	950nm	40°	-	66x66x55
73893	WF-II/LED35-230	eneo	230VAC	35W	25m	950nm	50°	integrated	129x182x111
73892	WF-I/LED40-230	eneo	230VAC	40W	28m	880nm	50°	integrated	129x182x111
73889	WF-II/LED70-230	eneo	230VAC	70W	35m	950nm	50°	integrated	129x182x111
73888	WF-I/LED80-230	eneo	230VAC	80W	42m	880nm	50°	integrated	129x182x111
73887	MF-I/LED80-230	eneo	230VAC	80W	55m	880nm	20°	integrated	129x182x111

All Infra-Red LED Illuminators with Protection Rate IP66

Accessories

Art-No.	Type	Description
73827	NE-109N	Power Supply 110-240VAC/12VDC for one LED-Infrared Illuminator 15W, Regulated
73433	DS-3	Twilight Switch with ON/OFF Delay adjustable Switching Points, 230VAC

eneo WD-8/MK

Wall Mount with Swivel Head, 1/4“ Camera Fixing Screw, Black Finish

Art-No.: 71310

eneo WD-9N

Wall Mount with Ball Joint, 1/4“ Camera Fixing Screw, Black Finish

Art-No.: 70023

eneo MK-3

Pole Bracket, RAL7032 with Swivel Head for Weatherproof Housings,120-180mm Pole

Art-No.: 73045

Overview Mounts for IR Illuminators

Art-No.	Type	Brand	Mounting Distance/ Height	Mounting	Load Capacity	Material	Colour	Weight
71310	WD-8/MK	eneo	186mm	Wall	3kg	Aluminium	black	240g
70023	WD-9N	eneo	203mm	Wall	1.5kg	Aluminium	black	260g
73045	MK-3	eneo	180mm	Pole	5kg	Steel	RAL7032	920g

eneo VZS-6

Video Twisted Pair Transmitter (BNC Type), Composite Input, 12VDC

Art-No.: 70599

eneo VZS-5

Twisted Pair Transmitter, Composite Input, Composite and TP Output, 230VAC

Art-No.: 70517

eneo VZT-21B/TB

Passive Twisted Pair Transmitter or Receiver, Compos. In/Output, BNC-T.Block

Art-No.: 75802

Overview Compact Transmitter & Transmitter/Receiver in Weatherproof Housings

	Art-No.	Type	Brand	Coaxial		Twisted Pair		Supply Voltage	Twisted Pair Connector	Protection Rating	Dimensions (HxWxD) mm
				Inputs	Outputs	Inputs	Outputs				
not illustr.	75801	VZT-21A/RJ45	eneo	1	1	1	1	–	RJ-45	–	22x25x54
	75802	VZT-21B/TB	eneo	1	1	1	1	–	BNC PLug	–	22x25x54
not illustr.	75803	VZT-21C/RJ45	eneo	1	1	1	1	12VDC Transmission	RJ-45	–	22x25x54
	70599	VZS-6	eneo	1	–	–	1	12VDC	BNC PLug	–	20x20x49
	70517	VZS-5	eneo	1	1	–	1	230VAC	BNC PLug	IP67	70x80x140
not illustr.	70519	VZE-5	eneo	1	4	1	–	230VAC	BNC PLug	IP67	70x80x140
not illustr.	70518	VZZ-5	eneo	1	2	1	1	230VAC	BNC PLug	IP67	70x80x140

Overview Rackmount-Systems 19“

	Art-No.	Type	Brand	Coaxial		Twisted Pair		Supply Voltage	19“ Rack Mountable *	Dimensions (HxWxD) mm
				Inputs	Outputs	Inputs	Outputs			
not illustr.	70564	VZS-4/M1	eneo	1	1	–	1	12VDC	√	50x17,5x90
not illustr.	70567	VZS-4/M2	eneo	1	1	–	1	12VDC	√	50x17,5x90
not illustr.	70568	VZE-4/M2	eneo	1	4	1	–	12VDC	√	50x17,5x90
not illustr.	70569	VZZ-4/M2	eneo	1	2	1	1	12VDC	√	50x17,5x90

*** Please note: For rack mount assembling the below mentioned connector boards and mounting frames are necessary**

Accessories

Art-No.	Type	Description
70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug
77779	VT-PS12DC-UK	Plug-in Power Supply Unit 230VAC/12VDC, 500mA, Regulated, with Open Ends
70584	VZS-4/M-CB1	19“ Connector Board for two VZS-4 Modules
70579	VZE-4/M-CB1	19“ Connector Board for two VZE-4 Modules
70583	VZZ-4/M-CB1	19“ Connector Board for two VZZ-4 Modules
70586	VZSY-4/M-FR	Rack Mount Front Panel for Twisted Pair Modules VZSY-4
70587	VZSY-4/19”	19“ Card Cage Housing for 34 Twisted Pair Cards with built-in Power Supply
70594	VZSY-4/19”-B1	Blank Panel Plate 1TE
70595	VZSY-4/19”-B2	Blank Panel Plate 2TE
70596	VZSY-4/19”-B5	Blank Panel Plate 5TE
70597	VZSY-4/19“-B10	Blank Panel Plate 10TE

EKR Matrix Switcher Series

HIGHLIGHTS
eneo Matrix Switcher Series

eneo EKR-8/4

8-4 Video/Telemetry Matrix Switcher, 230VAC

- Up to 8 Inputs/4 Outputs
- Multiple Language On-Screen Menu Driven Set-up
- Time/Date/Text Insertion
- Group Call-up for Cameras/Monitors
- Programmable Camera Sequences incl. Preset Calls
- Automatic Alarm Call-up
- Camera Control Selection: Coaxial or RS-485
- Videoloss Detection
- Video Signal Masking of Fixed Cameras
- VCR Trigger Management
- Password Protected
- Different Keyboard Versions Available

Art-No.: 75202

eneo EKR-32/8

32-8 Video/Telemetry Matrix Switcher, 230VAC

- Up to 32 Inputs / 8 Outputs
- Multiple Language On-Screen Menu Driven Set-up
- Time/Date/Text Insertion
- Group Call-up for Cameras/Monitors
- Programmable Camera Sequences incl. Preset Calls
- Automatic Alarm Call-up
- Camera Control Selection: Coaxial or RS-485
- Videoloss Detection / VCR Trigger Management
- Video Signal Masking of Fixed Cameras
- Master / Slave System: 1 Master / 4 Slaves max.
- Parallel System: Up to 9 Matrixes can be Connected
- Controllable via 2 different Keyboards

Art-No.: 75206

Under Control

The eneo EKR matrix switcher series is now complete with the EKR-16/4 and 32/8 models and covers all requirements ranging from small CCTR applications right up to complex systems. In addition to four-language menu navigation as well as date, time and text displays, all three matrix switchers offer extensive alarm management. This allows connected cameras and monitors to be called up in groups, or signals from specific cameras can be hidden. The date and time of each alarm status and the programmed camera name can be output on the screen. When there is an alarm, the corresponding camera switches to the monitor and overwrites the current image. Also, an alarm is triggered to the security team when a video signal malfunctions.

Matrix operation is performed by the optionally available eneo selection keyboards or also by an external PC over the RS-232 interface, and they are programmed via the selection keyboard and password-protected screen menus. Remote control of all key camera functions (pan, tilt, zoom, focus) as well as selection of stored preset positions is also featured. Several RS-485 interfaces are available for connecting pan/tilt systems and keyboards as well as multiplexer control. Our programme contains a wide choice of additional components and keyboards for the EKR matrix switcher series. For instance, a new multifunction keyboard with graphical 10“ touch-screen display: telemetry receivers as well as digital recorders and dome cameras can be controlled by the eneo MTC-1 keyboard.

eneo EKR-16/4

16-4 Video/Telemetry Matrix Switcher, 230VAC

Art-No.: 75208

eneo MTC-1

Matrix, Multiplexer and Telemetry Keyboard with Joystick, RS-485 Control

Art-No.: 75201

eneo EKR-KB1

Universal Keyboard for Matrix Switchers EKR Series, Pantone Coolgray 1C

Art-No.: 75207

eneo EKR-PTZFI-R2

RS-232/RS-485/Coax Telemetry Receiver for 230VAC Input and P/T Heads

Art-No.: 75212

eneo EKR-PTZFI-CB

Coax Telemetry Board for EKR-PTZFI-R1 Receiver

Art-No.: 75211

eneo EKR-PTZF-R1

RS-232/RS-485 Telemetry Preset Receiver 230VAC, for P/T Heads 24V/230VAC

Art-No.: 75209

Overview EKR Matrix Switcher Series

Art-No.	Type	Brand	Description
75202	EKR-8/4	eneo	Up to 8 Inputs/4 Outputsm, Multiple Language On-Screen Menu Driven Set-up, Time/Date/Text Insertion, Group Call-up for Cameras/ Monitors, Programmable Camera Sequences incl. Preset Calls, Automatic Alarm Call-up, Camera Control Selection: Coaxial or RS-485, Videoloss Detection, Video Signal Masking of Fixed Cameras, VCR Trigger Management, Password Protected, Different Keyboard Versions Available
75208	EKR-16/4	eneo	Up to 32 Inputs/8 Outputs, Multiple Language On-Screen Menu Driven Set-up, Time/Date/Text Insertion, Group Call-up for Cameras/ Monitors, Programmable Camera Sequences incl. Preset Calls, Automatic Alarm Call-up, Camera Control Selection: Coaxial or RS-485, Videoloss Detection, Video Signal Masking of Fixed Cameras, VCR Trigger Management, Password Protected, Different Keyboard Versions Available
75206	EKR-32/8	eneo	32-8 Video/Telemetry Matrix Switcher, 230VAC

Accessories

	Art-No.	Type	Description
	75201	MTC-1	Matrix, Multiplexer and Telemetry Keyboard with Joystick, RS-485 Control
not illustr.	**75205**	EKR-8/16-4K	Universal Keyboard for Matrix Switchers EKR-8/4, EKR-16/4, Pantone Coolgray 1C, Fixed Speed Control of PT Heads and Zoom Lenses, Camera and Monitor Call-Up, Programmable Sequences/Salvos and Tours, Addressable, RS-485 Serial Interface, Supply Voltage: 12 VDC
	75207	EKR-KB1	Universal Keyboard for Matrix Switchers EKR Series, Fixed or Variable Speed Control, Camera and Monitor Call-Up, Programmable Sequences/ Salvos and Tours, LCD Display, Addressable, RS-485 Serial Interface, Supply Voltage: 12VDC, Direct Control of P/T Head and Domr Cameras
	75212	EKR-PTZFI-R2	Zoom Lens and 230 P/T Head Control, Receiver for RS-485/RS-232 Control, Coaxial Control Signal Input, Alarm Inputs, Auxiliary Switch Outputs Supply Voltage: 230VAC, Weatherprotected Box
	75211	EKR-PTZFI-CB	Coax Telemetry Board for EKR-PTZFI-R1 Receiver
	75209	EKR-PTZF-R1	Zoom Lens and 230/24VAC P/T Head Control, Preset Positioning, Receiver for RS-485 Control, Auxiliary Switch Outputs, Supply Voltage: 230VAC Weatherprotected Box, Option: Coaxial Control Signal Input
	75203	EKR-EB	Expansion kit to 16 Inputs/4 Outputs for EKR-8/4

Motion Detectors

HIGHLIGHTS
Motion Detectors

eneo VDM-20

2-Channel Digital Video Motion Detector, PC-programmable, 230VAC

- Simultaneous Surveillance of Two Video Channels
- Digital Video Motion Detection
- Free Programmable Sensor Zones
- Resolution: 2x 1024 Zones per Camera
- 28,672 Points of Detection
- Several Alarm Processings
- Sensitivity: 10 Steps
- Display on PC Monitor Screen
- Easy Programming

Art-No.: 72352

eneo VDM-40

4-Channel Digital Video Motion Detector, PC-programmable, 230VAC

- Simultaneous Surveillance of Four Video Channels
- Digital Video Motion Detection
- 3-D Perspective
- Free Programmable Sensor Zones
- Resolution: 1024 Zones / Camera
- 98,304 Points of Detection
- Several Alarm Processings
- Sensitivity: 10 Steps
- Display on PC Monitor Screen
- Easy Programming

Art-No.: 72353

eneo VDM-41

4-Channel Digital Video Motion Detector,
PC-programmable, Real Time Clock, 230VAC

Art-No.: 72354

Overview Motion Detectors

Art-No.	Type	Brand	Video		Alarm	Alarm	Outdoor	Day/Night	Interface	Supply	Dimensions
			Inputs	Outputs	In/Out	Zones	Use	Mode		Voltage	(HxWxD) mm
72352	VDM-20	eneo	2	2	0/2	2	–	–	√	230VAC	40x200x130
72354	VDM-41	eneo	4	4	4/4	2	–	√	√	230VAC	1 HEx19"x200
72353	VDM-40	eneo	4	4	4/4	4	√	√	√	230VAC	1 HEx19"x200

HIGHLIGHTS

eneo Multiplexers

eneo VBMT-8016

B/W Multiplexer, Triplex, 16 Inputs, Resolution 720x480, Alarm Inputs, 12VDC

- For Simultaneous Recording/Playback/Live Pictures
- 16 Video Inputs / 5 Outputs
- CCIR/EIA Operation
- Multilingual On-Screen Programming
- VCR Record Speed Auto-Detection
- Programmable Motion Sensitivity (256 targets)
- Selectable Resolutions
- Automatic Multiscreen Displays
- Multiscreen Display for Playback Mode
- Linear Zoom In and Out up to 32-times
- Complete Alarm Capability
- Mouse Control

Art-No.: 72383

eneo VCMT-8016

Colour Multiplexer, Triplex, 16 Inputs, Resolution 720x480, Alarm Inputs, 12VDC

- For Simultaneous Recording/Playback/Live Pictures
- 16 Video Inputs / 5 Outputs
- PAL/NTSC Operation
- Multilingual On-Screen Programming
- VCR Record Speed Auto-Detection
- Programmable Motion Sensitivity (256 targets)
- Selectable Resolutions
- Automatic Multiscreen Displays
- Multiscreen Display for Playback Mode
- Linear Zoom In and Out up to 32-times
- Complete Alarm Capability
- Mouse Control

Art-No.: 72379

Overview Multiplexers

Art-No.	Type	Brand	BW/Colour	Video		Operation	Resolution	OSD	Alarm	Supply	Dimensions
				Inputs	Outputs		Pixels	Menu	In/Out	Voltage	(HxWxD) mm
72372	VBM-7001	eneo	B/W	4	2	Duplex	1024x512	√	4/1	230VAC/12VDC	45x430x200
72382	VBMT-8009	eneo	B/W	9	5	Triplex	720x480	√	9/2	230VAC/12VDC	44x432x310
72383	VBMT-8016	eneo	B/W	16	5	Triplex	720x480	√	16/2	230VAC/12VDC	44x432x310
72381	VCMT-8009	eneo	Colour	9	5	Triplex	720x480	√	9/2	230VAC/12VDC	44x432x310
72379	VCMT-8016	eneo	Colour	16	5	Triplex	720x480	√	16/2	230VAC/12VDC	44x432x310

Accessories

Art-No.	Type	Description
72316	VT-7000FB	Cable Remote Control Unit for VT-7000 Multiplexer Series
72286	VT-6000/7000RMK	19" Rack Mount Kit for all eneo Quad Splitters and 4-channel Multiplexer

HIGHLIGHTS

eneo Quads

eneo VBQ-6044

B&W Quad Splitter, 720x625, 25I/Sec. Alarm In/Outputs, 12VDC/ 230VAC

- Display of 4 B&W Pictures on one Screen
- Real Time Refresh Rate
- Resolution: 720x625 Pixels
- Automatic Gain Control
- Video Loss Detection, „Freeze“ of the last Picture
- Programming via On-screen Menu
- Time/Date/Camera Title Display
- 2x Zoom on Playback
- Alarm Inputs/Relay Contact Output
- RS-232 Interface
- Option: 19“ Rack Mount Kits, Wired Remote Control

Art-No.: 72549

eneo VCQ-6056

Colour Quad Splitter, 1024x625, 50I/Sec. Alarm In/Outputs, 12VDC/ 230VAC, 1/2 19“

- Display of 4 Colour Pictures on one Screen
- Real Time Refresh Rate
- Resolution: 1024x625 Pixels
- Automatic Gain Control
- Video Loss Detection, „Freeze“ of the last Picture
- Programming via On-screen Menu
- Time/Date/Camera Title Display
- 2x Zoom on Playback
- Alarm Inputs/ Relay Contact Output
- RS-232 Interface
- Option: 19“ Rack Mount Kits, Wired Remote Control

Art-No.: 72558

Overview Quads

Art-No.	Type	Brand	BW/Colour	Inputs	Outputs	Alarm In/Out	Resolution Pixels	OSD Menu	Supply Voltage	Dimensions (HxWxD) mm
72549	VBQ-6044	eneo	B/W	4	2	4/1	720x625	-	12VDC/230VAC	44.1x215x200
72558	VCQ-6056	eneo	Colour	4	2	4/1	1024x625	√	12VDC/230VAC	44.1x215x200

Accessories

Art-No.	Type	Description
72284	VBQ6044/VCQ6056	Cable Remote Control for VBQ-6044/VCQ-6056 Quads
72365	VT-6053/FB1	Cable Remote Control for VT-6042/6053 Quads
72556	VQ6056/6044RMK1	19“ Rack Mount Kit for 1x eneo Quad Splitter VCQ-6056 and VBQ-6044
72557	VQ6056/6044RMK2	19“ Rack Mount Kit for 2x eneo Quad Splitters VCQ-6056 and VBQ-6044
72286	VT-6000/7000RMK	19“ Rack Mount Kit for all eneo Quad Splitters and 4-channel Multiplexer

eneo PTB-1

Protocol Translator Board, 12VDC for Build-in VHM/ST Housing Series

Art-No.: 72501

eneo PDU-1

Protocol distributor 1/8 in Desktop Housing, Unidirectional, 2VDC/230VAC

Art-No.: 72441

eneo VDA-4A

Video Signal Distributor 1 Inp., 4 Outp. in Housing, 230VAC, Pantone Coolgray 1C

Art-No.: 75101

eneo VDA-8CA

Video Signal Distrib. 1-4 Inputs, 2-8 Outp., config.,230VAC,Pantone Coolgray1C

Art-No.: 75102

eneo AVU-8/2EC

Video Switcher 8 Inputs, 2 Outputs in Desktop Housing,230V, Pantone Coolgray1C

Art-No.: 76405

eneo AVU-8/2AL-2

Video Switcher 8 In/2 Outputs,Alarm Inp. 230VAC, Desktop Housing, Coolgray 1C

Art-No.: 76406

Overview Switchers & Amplifiers

	Art-No.	Type	Brand	Description
not illustr.	71003	LINE DRIVER	eneo	Converter RS232C/RS485 + DB9/DB25 Gendor Adapter
not illustr.	71005	UDS100-02	eneo	Remotely Monitoring over Ethernet, Manage and Control Serial Devices over Ethernet, Replace Limited-Distance Point-to-Point Connection, Configure with included Win S/W or Built-in Server, Software Selectable RS-232, RS-422 or RS-485, Data Rates: 300 to 115,200 Bps, 10Base-T/100Base-TX Ethernet, ARP, UDP/IP, TCP/IP, SNMP, DHCP, HTTP Protocols, Power Input: 9 to 24VAC, 9 to 30VDC, Compact Size: 23x64x90mm, Weight: 350g
	72501	PTB-1	eneo	RS-232 or RS-485 Protocol Converter Board, Converts Pelco P Protocol to VKC-1415, Camera Configuration via its own Menu Zoom/Focus Control and Preset Positioning, 256 Presets Available, Selectable Adresses and Baud Rates, Voltage supply: 12VDC, For Housing Series VHM/ST Prepared, Other Protocol Combinations: Upon Request
	72441	PDU-1	eneo	Active RS-485 Signal Distribution to 8 Outputs, Unidirectional Data Transmission, Desktop Housing, Power Supply: 12VDC, Power Supply Unit 100-240VAC/12VDC Included
	75101	VDA-4A	eneo	1 Input, 4 Outputs, Video Bandwidth: 10 MHz (+/-3 db), Signal-to-noise Ratio: >55 db, Integrated Signal Pre-Equalization (HF Gain), Integrated Signal Pre-Amplification (Linear Gain), Supply Voltage: 230 VAC / 50 Hz
	75102	VDA-8CA	eneo	1 to 4 Inputs, 2 to 8 Outputs, Video Bandwidth: 10 MHz (+/-3 db), Signal-to-noise Ratio: >55 db, Integrated Signal Pre-Amplification (Linear Gain), Supply Voltage: 230 VAC / 50 Hz
	76405	AVU-8/2EC	eneo	8 Camera Inputs, 2 Outputs (A and B), Outputs Selectable as Spot or Sequence, Vertical Interval Switching, Selectable Dwell Time, Programmable Bypass Function, Supply Voltage: 15 VAC 50/60 Hz
	76406	AVU-8/2AL-2	eneo	8 Video and Alarm Inputs, Spot and Sequence Output, Vertical Interval Switching, Multilingual On-screen Menu Programming Selectable Dwell Times, Frame-by-Frame Switching, Programmable Bypass Function, VCR Head Switch Pulse Input, Alarm and Remote Control Input, Alarm/Switcher Output, Camera/Sequence and Alarm No. Display, Built-in Buzzer

Accessories Signal Processing

Art-No.	Type	Brand	Description
72368	VTD-1	eneo	Character Display on 11 Lines, Paramater Adjustment via PS/2 Keyboard, Back-up Powered Real Time Clock, RS-232 Interface, Display Positioning, Protocol Display, Automatic Summertime Change
76941	VKE-1N-1	eneo	Corrects Cable Attenuation of High Frequencies, For Current Cable Types, Adjustable from 0 to 1500 m, Supply Voltage: 115 / 230 VAC
72385	EGLC-2	eneo	Ground-loop corrector, Provides Ground Isolation, Compatible with Coax Control Systems, Isolated BNC Connectors, No Power Requirement
72356	VAM-1	eneo	Video and Audio Signals to TV Set, or TV Networks, Adjustable Channel Range: 29 to 46 (470 to 862MHz), Antenna Loop-thru Input, Integrated Test Pattern Generator, Upto 4 Units Cascadable, Supply Voltage: 12 VDC
76407	VDA/AVU-RMK1	eneo	19" Rack Mount Kit for 1xVDA-8CA and AVU-8/2AL-2
76408	VDA/AVU-RMK2	eneo	19" Rack Mount Kit for 2xVDA-8CA and AVU-8/2AL-2

Digital Video Recorders

eneo EMD-15C1/QUAD

Combo System with 15“ Monitor, 4-channel Multiplexer/DVR, 2x Cameras & Minidomes

- 15“ Flat Built-in DVR / Multiplexer Monitor
- 4x Modular and 4x CVBS Inputs / RJ-45 Network
- Recording: 50 Fields/sec. / Real-time Playback
- Resolution: 720x240 Pixels max. (for Recording)
- Simultaneous Recording & Playback (Duplex)
- Simultaneous Live & Playback in 3x3 Split
- Display: Full, Quad, 9x Split, Zoom, Sequence
- Programmable Day & Night Motion Detection
- Multiple Recording Options / Alarm Management
- Network Funktions: Live / Playback / Search
- 2x 1/4“ Box and Dome Cameras each included
- Acc.: Lenses 8mm, Wall Brackets and System Cables

Art-No.: 90469

Video surveillance complete

The EMD-15C1/Quad integrated solution contains more than a monitor with integral multiplexer and digital video recorder, it also includes four colour cameras – two standard and two dome cameras with lenses, as well as corresponding wall mounts and a system cable. In short: the package provides everything needed to install a video surveillance system with plug-and-play. And it comes at an unbeatable price.

The 15” monitor boasts four audio/video inputs (RJ-11 for the supplied system cable or BNC ports for hooking up to existing camera signals). Pictures can be displayed as full frame, quad or 9x split. The duplex-operation recorder allows simultaneous recording and playback as well as simultaneous display of recorded images and live pictures split 3x3 on the screen. A maximum recording rate of 50 fps delivers smooth video recordings. Picture playback is in real time. The integral motion detector can be programmed specifically for day and night applications. Furthermore, the integral solutions can be connected to any network over its Ethernet port. Also included in the shipping package: RCC remote software for selection and management of several devices. The software can also export the recorded images.

eneo VKC-1418SC

1/4“ Colour System Camera, CS, Lens, Wall Bracket, 18m RJ-11 Multi Cable

Art-No.: 92032

eneo VKCD-148SC

1/4“ Colour Dome Camera, Lens, Wall Bracket, 18m RJ-11 Multi Cable

Art-No.: 92033

HIGHLIGHTS

eneo 1-channel Recorders

eneo DSR-01N/80

Digital Video Recorder (1-Channel) 80GB internal HDD, Alarm Input, Ethernet

- Single Channel DVR
- MJPEG Video Compression
- Integral 80Gbyte Hard Disk
- Recording Speed: 50 Fields/Sec. max.
- Resolution 704x288 Pixels max.
- Simplex Mode
- Audio and Alarm Input and Output
- Pre and Post Alarm Recording
- Multiple Language On-screen Menu Control
- Interface with Most Popular Multiplexers
- Various Recording Modes
- Ethernet Connectivity

Art-No.: 71864

eneo DSR-04N/80

Digital Quad Video Recorder (4-Channel) 80GB internal HDD, Alarm Input, Ethernet

- 4-Channel Quad DVR
- MJPEG Video Compression
- Integral 80Gbyte Hard Disk
- Record/Playback Speed: 50 Images/Sec. max.
- Resolution 704x240 Pixels max.
- Simplex Mode
- Audio and Input and Output
- Alarm Input and Outputs
- Pre and Post Alarm Recording
- Multiple Language On-screen Menu Control
- Various Recording Modes
- Ethernet Connectivity

Art-No.: 71862

Overview DSR-Series

	Art-No.	Type	Brand	Video In/Out	Hard Disk Capacity	Operation	Recording Speed max. (PAL)	Multiscreen Display	Transmission via	Dimensions (HxWxD)
not illustr.	71863	DSR-01/80	eneo	1/2	80GB	Simplex	50 fields/sec.	–	–	89x220x320
	71864	DSR-01N/80	eneo	1/2	80GB	Simplex	50 fields/sec.	–	Ethernet	89x220x320
	71862	DSR-04N/80	eneo	4/1	80GB	Simplex	25 fields/sec.	4x	Ethernet	89x220x320

Accessories

Art-No.	Type	Description
72547	DLR-201/RMK-1	19“ Rack Mount Kit for 1x DSR-01/-01N/-04N
72548	DLR-201/RMK-2	19“ Rack Mount Kit for 2x DSR-01/-01N/-04N
71848	SD Card/256	SD Memory Card 256MB f. DSR-01/-01N/-04N Video Recorder, ENC-501 Camera Series
71828	HDD-160	Hard disk 160Gb for DSR-01/-01N/-04N, DNR-108/80(W)

Digital Video Recorders

HIGHLIGHT

eneo DLR2 Series

eneo DLR2-04N/120

Digital Video Recorder (4-Channel) 120GB Hard Disk, Alarm Input, Ethernet

- Duplex Operation
- ML-JPEG Video Compression
- Recording Speed: 100 Fields/Sec. max.
- Video Resolution: 720x576 Pixels max. (PAL)
- 4 Loop-through Inputs / VGA, Comp./S-VHS Output
- Network Connectivity (10/100Base-T Ethernet)
- Built-in CD Writer
- Audio and Alarm Inputs / Outputs
- Secondary Storage / Archiving via USB and CD-RW
- 120GB EIDE HDD (up to 3 Hard Disks Extentable)
- Live Picture & Playback Zoom (2x)
- Integrated Motion Detector

Art-No.: 71860

Figure 1 — Typical DVR installation.

The DLR2 Series

The DLR2 series duplex recorders feature a very efficient compression method (ML-JPEG). As a result they only take up approximately 18K for one best quality image, which is significantly less than comparable models. As storage capacity can be expanded to up to 750GB, recording long periods of time is no problem. Recorders of the DLR2 series are network compatible and are equipped with supporting remote software. Via the integral USB port image sequences up to a size of 2GB can be stored on an external hard disk for data back up or archiving. A player software is automatically stored as well, which enables image playback and analysis on any Windows 98/ME/2000/XP based PC system. While the 9 and 16 channel models offer a SCSI interface for storage capacity enlargement and data back up, with the 4 channel DVR data can be transferred to the integral CD writer. In addition, this model with its recording speed of up to 100 field/s. presents itself with an even more fluid image playback, in single-channel as well as in multi-channel mode. The features of the 4 channel unit are rounded off by the VGA output and live images and playback 2x zoom.

eneo DLR2-04N/280

Digital Video Recorder (4-Channel) 280GB Hard Disk, Alarm Input, Ethernet

Art-No.: 71867

eneo DLR2-04N/440

Digital Video Recorder (4-Channel) 440GB Hard Disk, Alarm Input, Ethernet

Art-No.: 71868

eneo DLR2-09N/120

Digital Video Recorder (9-Channels) 120GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71865

eneo DLR2-09N/280

Digital Video Recorder (9-Channels) 280GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71869

eneo DLR2-09N/440

Digital Video Recorder (9-Channels) 440GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71870

eneo DLR2-09N/600

Digital Video Recorder (9-Channels) 600GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71871

eneo DLR2-16N/120

Digital Video Recorder (16-Channels) 120GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71866

eneo DLR2-16N/280

Digital Video Recorder (16-Channels) 280GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71872

eneo DLR2-16N/440

Digital Video Recorder (16-Channels) 440GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71873

Digital Video Recorders

eneo DLR2-16N/600

Digital Video Recorder (16-Channels) 600GB HDD, Alarm Inputs, Network, 24VDC

Art-No.: 71874

Overview DLR2-Series

Art-No.	Type	Brand	Video In/Out	Hard Disk Capacity	Operation	Recording Speed max. (PAL)	Multiscreen Display	Transmision via	Dimensions (HxWxD) mm
71860	DLR2-04N/120	eneo	4/2	120GB	Duplex	100 fields/sec.	4x	Ethernet	88x430x355
71867	DLR2-04N/280	eneo	4/2	280GB	Duplex	100 fields/sec.	4x	Ethernet	88x430x355
71868	DLR2-04N/440	eneo	4/2	440GB	Duplex	100 fields/sec.	4x	Ethernet	88x430x355
71865	DLR2-09N/120	eneo	9/1	120GB	Duplex	50 fields/sec.	9x	Ethernet	88x430x357
71869	DLR2-09N/280	eneo	9/1	280GB	Duplex	50 fields/sec.	9x	Ethernet	88x430x357
71870	DLR2-09N/440	eneo	9/1	440GB	Duplex	50 fields/sec.	9x	Ethernet	88x430x357
71871	DLR2-09N/600	eneo	9/1	600GB	Duplex	50 fields/sec.	9x	Ethernet	88x430x357
71866	DLR2-16N/120	eneo	16/1	120GB	Duplex	50 fields/sec.	16x	Ethernet	88x430x357
71872	DLR2-16N/280	eneo	16/1	280GB	Duplex	50 fields/sec.	16x	Ethernet	88x430x357
71873	DLR2-16N/440	eneo	16/1	440GB	Duplex	50 fields/sec.	16x	Ethernet	88x430x357
71874	DLR2-16N/600	eneo	16/1	600GB	Duplex	50 fields/sec.	16x	Ethernet	88x430x357

Accessories

Art-No.	Type	Description
74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
74092	EDC-KBDM-3	System Keyboard w. Joystick, 5" Monitor 12VDC/230VAC
71855	HDD-160	Hard disk 160Gb for DLR/DLR2 and DXR Series
71857	HDD-250	Hard disc 250GB for DLR/DLR2 and DXR Series
71842	KUSB/128 ENEO	USB Memory Stick 128MB/USB 2.0
71844	KUSB/256	USB Memory Stick 256MB for DLR/DLR2/DXR Videorecorder, USB 1.1/2.0

HIGHLIGHTS

eneo DXR Series

eneo DXR-16N/1000

Digital Video Recorder (16-Channels) 1TB HDD, Alarm Inputs, Network, 230VAC

- ML-JPEG Video Compression / Duplex Operation
- 16 Loop-through Inputs / VGA, Comp./S-VHS Outputs
- Audio and Alarm Inputs / Outputs
- Recording Speed: 100 Fields/Sec. max. (PAL)
- 1Tbyte EIDE HDD's
- Video Resolution 720x576 Pixels max.
- SCSI Port for Archiving / Memory Extention
- Various Recording Modes
- Secondary Storage / Archiving via USB
- ATM/POS Text Insertion / 2x, 4x Digital Zoom
- PTZ Control and Remote Control through RS-485 Port
- Ethernet Connectivity / IR Remote Control

Art-No.: 71887

eneo DXR1-16N/500CD

Digital Video Recorder (16-Channels) 500GB HDD, CD-RW Drive, Ethernet, 230VAC

- ML-JPEG Video Compression / Duplex Operation
- 16 Loop-through Inputs / VGA, Comp./S-VHS Outputs
- Audio and Alarm Inputs / Outputs
- Recording Speed: 100 Fields/Sec. max. (PAL)
- 500Gbyte EIDE HDDs
- Video Resolution 720x576 Pixels max.
- SCSI Port for Archiving / Memory Extention
- Various Recording Modes
- Secondary Storage / Archiving via USB and CD-RW
- ATM/POS Text Insertion / 2x, 4x Elektronic Zoom
- PTZ Control and Remote Control through RS-485 Port
- Ethernet Connectivity / IR Remote Control

Art-No.: 71877

Overview DXR-Series

	Art-No.	Type	Brand	Video In/Out	Hard Disk Capacity	Operation	Recording Speed max. (PAL)	Multiscreen Display	Transmission via	CD-RW Drive	Dimensions (HxWxD) mm
not illustr.	71888	DXR1-09N/250CD	eneo	9/5	250GB	Duplex	100 fields/sec.	9x	√	√	88x430x393
not illustr.	71879	DXR1-09N/500CD	eneo	9/5	500GB	Duplex	100 fields/sec.	9x	√	√	88x430x393
not illustr.	71891	DXR1-16N/250CD	eneo	16/5	250GB	Duplex	100 fields/sec.	16x	√	√	88x430x393
	71877	DXR1-16N/500CD	eneo	16/5	500GB	Duplex	100 fields/sec.	16x	√	√	88x430x355
not illustr.	71884	DXR-16N/250	eneo	16/5	250GB	Duplex	100 fields/sec.	16x	√	–	88x430x393
not illustr.	71885	DXR-16N/500	eneo	16/5	500GB	Duplex	100 fields/sec.	16x	√	–	88x430x393
not illustr.	71886	DXR-16N/750	eneo	16/5	750GB	Duplex	100 fields/sec.	16x	√	–	88x430x393
	71887	DXR-16N/1000	eneo	16/5	1TB	Duplex	100 fields/sec.	16x	√	–	88x430x393

Accessories

Art-No.	Type	Description
71902	DXR-MOUSE	USB Mouse for DXR Recorder Series
74088	EDC-KBD1	System Keyboard with 3-axis Joystick, 12VDC/230VAC
74092	EDC-KBDM-3	System Keyboard w. Joystick, 5" Monitor 12VDC/230VAC
71855	HDD-160	Hard disk 160Gb for DLR/DLR2 and DXR Series
71857	HDD-250	Hard disc 250GB for DLR/DLR2 and DXR Series
71842	KUSB/128 ENEO	USB Memory Stick 128MB/USB 2.0
71844	KUSB/256	USB Memory Stick 256MB for DLR/DLR2/DXR Videorecorder, USB 1.1/2.0

Digital Video Recorders

HIGHLIGHTS

eneo Network Recorders

eneo DNR-108/80

Digital IP Recorder (8 Channel), 80Gb, 12VDC/230VAC

- For eneo IP Camera Series ENC-1001L/ENC-501L
- MJPEG Video Compression
- Image Resolution of 720x544 Pixels max.
- Recording Rate: 50 Fields/Sec.
- Integral 80Gbyte Hard Disk
- Hard Disk Capacity: 320Gb max. (total)
- Archiving via Removable Hard Disk (HDD optional)
- SD Memory Card for Storage and Firmware Upgrade
- Audio and Alarm Input and Output
- Pre-Alarm Recording
- Various Recording Modes
- Composite Video Monitor Output

Art-No.: 71856

eneo DNR-108/80W

Digital W LAN IP Recorder (8 Channel), 80Gb, 12VDC/230VAC

- For eneo IP Camera Series ENC-1001/ENC-501(W/L)
- MJPEG Video Compression
- Image Resolution of 720x544 Pixels max.
- Recording Rate: 50 Fields/Sec.
- Integral 80Gbyte Hard Disk
- Hard Disk Capacity: 320Gb max. (total)
- Archiving via Removable Hard Disk (HDD optional)
- SD Memory Card for Storage and Firmware Upgrade
- Audio and Alarm Input and Output
- Pre-Alarm Recording
- Various Recording Modes
- Composite Video Monitor Output

Art-No.: 71875

Overview DNR-Series

Art-No.	Type	Brand	Video In/Out	Hard Disk Capacity	Operation	Recording Speed max. (PAL)	Multiscreen Display	Transmission via	Dimensions (HxWxD) mm
71856	DNR-108/80	eneo	1/2	80GB	Simplex	50 fields/sec.	–	–	89x220x320
71875	DNR-108/80W	eneo	1/2	80GB	Simplex	50 fields/sec.	–	–	89x220x320

Accessories

Art-No.	Type	Description
72547	DLR-201/RMK-1	19" Rack Mount Kit for 1x DSR-01/-01N/-04N
72548	DLR-201/RMK-2	19" Rack Mount Kit for 2x DSR-01/-01N/-04N
71848	SD Card/256	SD Memory Card 256MB f. DSR-01/-01N/-04N Video Recorder, ENC-501 Camera Series
71828	HDD-160	Hard disk 160Gb for DSR-01/-01N/-04N, DNR-108/80(W)

Mainfeatures at a glance							
Type	**DSR-01N/80**	**DSR-01/80**	**DSR-04N/80**	**DLR2-04N**	**DLR2-09N (16N)**	**DXR-09N (16N)**	**DXR1-09N (16N)**
Info							NEW!
Video Inputs	1	1	4	4	9 (16)	9 (16)	9 (16)
Video outputs	1	1	1	1	1	1	1
Spot Monitor Outputs	-	-	-	-	1	4	4
VGA Output	No	No	No	1	No	1	1
Signalformat	PAL	PAL	PAL	PAL/NTSC	PAL/NTSC	PAL/NTSC	PAL/NTSC
Compression	MJPEG	MJPEG	MJPEG	ML-JPEG	ML-JPEG	ML-JPEG	ML-JPEG
Hard Disk Capacity	80GB/up to 250GB max.	80GB/up to 250GB max.	80GB/up to 250GB max.	80GB/up to 750GB* max.	120GB/up to 1TB* max.	250GB/up to 1TB* max.	250GB/up to 1TB* max.
Archiving	SD Card, Hard Disk up to 250GB	SD Card, Hard Disk up to250GB	SD Card, Hard Disk up to 250GB	CD-RW/USB	USB	CD-RW/USB	CD-RW/USB
Recording Speed max.	50 fields/sec.	50 fields/sec.	50 fields/sec.	100 fields/sec.	50 fields/sec.	100 fields/sec.	100 fields/sec.
Resolution max.	704x288 Pixels	704x288 Pixels	704 x 240 Pixels	720x576 Pixels	720x576 Pixels	720x576 Pixels	720x576 Pixels
Operation	Simplex	Simplex	Simplex	Duplex	Duplex	Duplex	Duplex
Audio In/Out	1/1	1/1	4/1	4/1	1/1	4/1	4/1
Alarm In/Out	1/1	1/1	4/1	4/2	9/4 (16/4)	9/9 (16/16)	9/9 (16/16)
Interface with most popular Multiplexers	Yes	Yes	-	-	-	-	-
Various Recording Modes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multi-Screen Display	No	No	4x	4x	9x (16x)	9x (16x)	9x (16x)
Network Connectivity	Ethernet LAN as Standard	No	Ethernet LAN as Standard	Ethernet LAN as Standard	Ethernet LAN as Standard	Ethernet LAN as Standard	Ethernet LAN as Standard
USB	No	No	No	Yes	Yes	Yes	Yes
PSTN Modem Capability	No	No	No	Yes	Yes	Yes	Yes
Supply Voltage	12VDC/100-230VAC	12VDC/100-230VAC	12VDC/100-230VAC	100 ~ 240VAC	24VDC/100 ~ 240VAC	24VDC/100 ~ 240VAC	24VDC/100 ~ 240VAC
Dimensions (HxWxD)	89 x 220 x 320mm	89 x 220 x 320mm	89 x 220 x 320mm	88 x 430 x 355mm	88 x 430 x 355mm	88 x 430 x 355mm	88 x 430 x 355mm
Software included	Remote Access Software	No	Remote Access Software	eneo RAS Software (RAS-Search, RAS-Admin, RAS-Watch)	eneo RAS Software (RAS-Search, RAS-Admin, RAS-Watch)	eneo RAS Software (RAS-Search, RAS-Admin, RAS-Watch)	eneo RAS Software (RAS-Search, RAS-Admin, RAS-Watch)

TFT/LCD Monitors

HIGHLIGHT

TFT/LCD Monitors

eneo

eneo VMC-23LCD-PWA

23"Prof. 16:9 LCD Colour Monitor, 4xCVBS with integr. Colour Cam., 24VDC/230VAC

- Professional LCD/TFT Security Monitor
- 23" Display Screen Size for 16:9 Image Display
- Integral 1/3" CCD Colour Camera w. Varifocal Lens
- Built-in 4-channel Real Time Multiplexer
- Switchable PAL/NTSC Selection
- Full and Multi Screen Display/2x Digital Zoom
- Integrated Memory Function for upto 60 Images
- Multi Language On-screen Menu Control
- Resolution of 1280x768 Pixels
- 4 CVBS Inputs/3 CVBS Outputs, Alarm In and Outputs
- Supply Voltage: 24VDC/230VAC
- Rugged Metal Cabinet

Art-No.: 90447

eneo

eneo VMC-17LCD-PW

17" Prof. 16:9 LCD Colour Monitor, Y/C, 4x CVBS, RGB, 2x Audio, 12VDC/230VAC

Art-No.: 90446

eneo

eneo VMC-23LCD-PW

23" Prof. 16:9 LCD Colour Monitor, 4x CVBS, Y/C, RGB, 2x Audio, 24VDC/230VAC

Art-No.: 90451

eneo

eneo VMC-32LCD-PW

32" Prof. 16:9 TFT Colour Monitor, 4x CVBS, Y/C, RGB, 2x Audio, 100-240VAC

Art-No.: 90467

HIGHLIGHTS
TFT/LCD Monitors

eneo VMC-17LCD-PP

17“ LCD Colour Monitor, 1280x1024 Pixels Comp.,Y/C, RGB, 2x Audio, 12VDC/230VAC

- Prof. LCD/TFT Monitor with 17“ Display Screen Size
- PAL/NTSC Auto Selection
- Multi Language On-screen Menu Control
- Resolution of 1280x1024 pixels (SXGA)
- CVBS, S-Video, VGA and Audio Inputs
- Quick Signal Switching
- Integrated Loudspeakers
- Supply Voltage: 12VDC/230VAC
- Robust Metal Cabinet
- Integrated Table Stand
- ISO 13406-2 Certified (Ergonomic Standard)
- Option: Wall and Wall/Ceiling Mount Brackets

Art-No.: 90443

Best Models in the CCTV Today bench test!

eneo VMC-19LCD-P

19“ LCD Profession. Colour Monitor, 1280x1024Px., Comp., Y/C, RGB, 12VDC/230VAC

- 19“(48cm) Display Screen Size
- PAL/NTSC Auto Selection
- Multi Language On-screen Menu Control
- Resolution: 1280x1024 Pixels (SXGA)
- CVBS, S-Video, VGA and Audio Inputs
- Quick Signal Switching
- Integrated Loudspeakers
- Supply Voltage: 12VDC/230VAC
- Robust Metal Cabinet
- Wall and Table Stand Mounting
- ISO 13406-2 Certified (Ergonomic Standard)
- Options: Table Stand/Mounting Brackets

Art-No.: 90430

eneo VMC-5.6LCD

5,6“ (14,3cm) LCD/TFT Colour Monitor, 960x342Pixels, 2 comp., 2 Audio, 12VDC

Art-No.: 90372

eneo VMC-6.8/1-LCD

6.8“(17.3cm) LCD/TFT Colour Monitor, 1152x234 Pixels, 2 comp., 2 Audio, 12VDC

Art-No.: 90435

eneo VMC-6.8/2-LCD

6.8“(17.3cm) LCD/TFT Colour Monitor Module, 1152x234Pixels, 1x CVBS, 12VDC

Art-No.: 90434

TFT/LCD Monitors

eneo VMC-5.6/S-LCD

5.6“ (14,3cm) LCD/TFT Service Monitor, 960x234 Pixel, 1 comp., 1 Audio, 12VDC

Art-No.: 90375

eneo VMC-8.4LCD-D

8.4“(21.3cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

Art-No.: 90437

eneo VMC-10.4LCD-D

10.4“(26.4cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

Art-No.: 90438

eneo VMC-15LCD-D

15“(38.1cm) LCD/TFT colour monitor with stand and PSU, silvergrey housing

Art-No.: 90431

eneo VMC-19LCD-D

19“(48cm) TFT/LCD Colour Monitor, 1600x 1200Px., Comp., Y/C, RGB, 15VDC/230VAC

Art-No.: 90432

eneo VMC-15LCD-PT

15“(38.1cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housing

Art-No.: 90398

eneo VMC-17LCD-PT

17“(44cm) LCD/TFT Colour Monitor with Stand and PSU, Silvergrey Housinge

Art-No.: 90399

eneo VMC-15LCD-P

15“ LCD Professional Colour Monitor,1024x768, Comp.,Y/C,RGB,2Audio, 12VDC/230VAC

Art-No.: 90392

eneo VMC-17LCD-P

17“ LCD Professional Colour Monitor,1280x1024, Comp.,Y/C,RGB,2Audio, 12VDC/230VAC

Art-No.: 90393

Overview TFT/LCD Monitors

Art-No.	Type	Brand	Display Screen Size	Resolution Pixels	Supply Voltage	OSD Menu	PAL/ NTSC	Inputs FBAS	Y/C	RGB	VGA	Audio	Housing	Dimensions (HxWxD) mm
90372	VMC-5.6LCD	eneo	5.6“	960x342	12VDC/230VAC	–	–	√	–	–	–	√	Plastic	133x160x31.4
90435	VMC-6.8/1-LCD	eneo	6.8“	1152x234	12VDC/230VAC	–	√	√	–	–	–	√	Plastic	142x170x31.5
90434	VMC-6.8/2-LCD	eneo	6.8“	1125x234	12VDC/230VAC	–	√	√	–	–	–	–	Metal	125.5x165.8x21.6
90375	VMC-5.6/S-LCD	eneo	5.6“	960x234	12VDC/230VAC	–	–	√	–	–	–	–	Plastic	68x240x156
90437	VMC-8.4LCD-D	eneo	8.4“	800x600	12V/230V	√	√	√	√	√	√	√	Plastic	178.3x223x34.4
90438	VMC-10.4LCD-D	eneo	10.4“	800x600	12V/230V	√	√	√	√	√	√	√	Plastic	202x254x28.8
90431	VMC-15LCD-D	eneo	15”	1024x768	12VDC/230VAC	√	√	√	√	√	√	√	Plastic	368x368x171
90443	VMC-17LCD-PP	eneo	17“	1280x1024	12VDC/230VAC	–	√	√	√		√	√	Plastic	426x418x196
90432	VMC-19LCD-D	eneo	19“	1600x1200	12VDC/230VAC	√	√	√	√	√	√	√	Plastic	450x390x197
90398	VMC-15LCD-PT	eneo	15“	1024x780	12VDC/230VAC	√	√	√	√	√	√	√	Metal	333x392x200
90399	VMC-17LCD-PT	eneo	17“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	√	Metal	375x445x200
90392	VMC-15LCD-P	eneo	15“	1024x768	12VDC/230VAC	√	√	√	√	√	√	√	Metal	350x285x44
90393	VMC-17LCD-P	eneo	17“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	√	Metal	398x334x50
90430	VMC-19LCD-P	eneo	19“	1280x1024	12VDC/230VAC	√	√	√	√	√	√	√	Metal	362x419x54
90446	VMC-17LCD-PW	eneo	17”	1280x768	12VDC/230VAC	√	√	√	√	√	√	√	Metal	422.5x301.5x57.5
90451	VMC-23LCD-PW	eneo	23”	1280x768	24VDC/230VAC	√	√	√	√	√	√	√	Metal	385x572x67.2
90447	VMC-23LCD-PWA	eneo	23”	1280x768	24VDC/230VAC	√	√	√	–	–	–	–	Metal	422x572x67.2
90467	VMC-32LCD-PW	eneo	32”	1360x768	100-240VAC	√	√	√	√	√	√	√	Metal	512x804x97

Accessories

Art-No.	Type	Description
90436	NTVA-PM100	TV Tuner Adapter PAL/Secam for PT and D Series TFT Monitors (15“, 17“, 19“)

CRT Monitors

TOP SELLER

CRT Monitors

eneo

eneo VMC-15HR/1

15“(38cm) Colour Monitor, Composite, Y/C, Audio Inputs, 650TVL

- 15“ High Resolution Picture Tube
- Resolution of 650 Horizontal Lines
- Automatic PAL/NTSC Selection
- Video/Audio Loop-through Inputs
- Over/Underscan Function
- Built-in Comb Filter
- Built-in Loudspeaker
- Universal Voltage Input: 100 to 240VAC, 50/60Hz
- Detachable Power Cord
- Rugged Metal Housing

Art-No.: 90441

eneo

eneo VMC-21/1

21“(53cm) Colour Monitor, Composite, Y/C, Audio Inputs, 500TVL

- 21“ High Resolution Picture Tube
- Resolution of 500 Horizontal Lines
- Automatic PAL/NTSC Selection
- Video / Audio Loop-through Inputs
- Over / Underscan Function
- Built-in Comb Filter
- Built-in Loudspeaker
- Universal Voltage Input: 100 to 240VAC, 50/60 Hz
- Detachable Power Cord
- Rugged Metal Housing

Art-No.: 90442

Work out the ideal Size for your Monitor

The initial factor in choosing monitors is their size, which is given in inches. Our data sheets also show the size in centimetres as well as the **full dimensions**, if appropriate. The required monitor size depends upon the viewing distance.

General rule:

Screen diagonal in inches x Factor 10 = Viewing distance in centimetres

eneo VMM-9/3

9“ (23cm) B/W Monitor, Dark switch function, 1000 TVL, 90-254VAC

Art-No.: 90338

eneo VMM-12/3

12“ (31cm) B/W Monitor, Dark switch function, 1000 TVL, 90-254VAC

Art-No.: 90339

eneo VMM-14/1

14“ (36cm) B/W Monitor, Dark switch function, 1000 TVL, 90-254VAC

Art-No.: 90439

eneo VMM-17/1

17“ (44cm) B/W Monitor, Dark switch function, 900TVL, 96-264VAC

Art-No.: 90358

eneo VMM-20

20“ (51cm) B/W Monitor, 900TVL, 230VAC

Art-No.: 90356

eneo VMM-14Quad

14“(35cm) B/W Monitor with Quad, 700TVL, 230VAC

Art-No.: 90322

eneo VMC-10/2

10“ (25cm) Colour Monitor, 300TVL, 2 composite, 1 Y/C, 1 Audio, 90-254VAC

Art-No.: 90363

eneo VMC-14/2

14“ (36cm) Colour Monitor, 350TVL, 2x composite, 1x Y/C, 1x Audio, 230VAC

Art-No.: 90351

eneo VMC-17/HR

17“ (44cm) Colour Monitor, 700TVL, 2x composite, 1Y/C, 1RGB, 2x Audio, 90-254V

Art-No.: 90378

CRT Monitors

eneo VMC-19/HR

19“ (48cm) Colour Monitor, 700TVL,
2x composite, 1Y/C, 1 RGB, 2Audio, 230VAC

Art-No.: 90379

Overview B/W Monitors

Art-No.	Type	Brand	Display Screen Size	Resolution (TVL)	Supply Voltage	Dark Switch Function	Housing	Dimensions (HxWxD) mm
90338	VMM-9/3	eneo	9“	> 800	96-264VAC	√	Metal	234x220x248
90339	VMM-12/3	eneo	12“	> 800	96-264VAC	√	Metal	287x305x202
90439	VMM-14/1	eneo	14“	> 800	198-230VAC	√	Metal	315x328x320
90358	VMM-17/1	eneo	17“	900	96-264VAC	√	Metal	385x415x390
90322	VMM-14Quad	eneo	14“	> 700	230VAC	–	Metal	315x328x320

Overview Colour Monitors

Art-No.	Type	Brand	Display Screen Size	Resolution (TVL)	Supply Voltage	OSD Menu	PAL/ NTSC	Inputs FBAS	Inputs Y/C	Inputs RGB	Inputs Audio	Housing	Dimensions (HxWxD) mm
90363	VMC-10/2	eneo	10“	300	90-254VAC	–	√	√	√	–	√	Metal	246x260x338
90351	VMC-14/2	eneo	14“	350	230VAC	–	√	√	√	–	√	Metal	330x350x375
90441	VMC-15HR/1	eneo	15“	650	100-240VAC	√	√	√	√	–	√	Metal	352x363x364
90378	VMC-17/HR	eneo	17“	700	90-254VAC	√	√	√	√	–	√	Metal	393x406x412
90379	VMC-19/HR	eneo	19“	700	100-240VAC	√	√	√	√	–	√	Metal	425x450x455
90442	VMC-21/1	eneo	21“	500	100-240VAC	√	√	√	√	–	√	Metal	478x490x450

Accessories

Art-No.	Type	Description
90341	VMM9/RMK-6HE	19“ Monitor Mounting Kit for VMM-9 Monitor
90342	VMM9/2XRMK-6HE	19“-Rack Mount Kit for two VMM-9 Monitors
90343	VMM9/BP	19“ Slot filler for 19“ Monitor
90344	VMM12/RMK-7HE	19“ Monitor Mounting Kit for VMM-12 Monitor

eneo VMC-LCD/WMB-3

Wall Mount Bracket, Pan and Tiltable for LCD Monitors

Art-No.: 90448

eneo VMC-LCD/WMB-1

Wall Bracket for TFT/LCD Monitors, straight

Art-No.: 90426

eneo VMC-LCD/WCMB-1

Wall/Ceiling Bracket for LCD Monitors 15“/17“/19“ P/PT/D Series

Art-No.: 90394

Overview Mounts for TFT/LCD Monitors

	Art-No.	Type	Brand	Description
	90448	VMC-LCD/WMB-3	eneo	Wall Mount Bracket, Pan and Tiltable for LCD Monitors
	90426	VMC-LCD/WMB-1	eneo	Wall Bracket for TFT/LCD Monitors, straight
	90394	VMC-LCD/WCMB-1	eneo	Wall/Ceiling Bracket for LCD Monitors 15“/17“/19“ P/PT/D Series
not illustr.	**90468**	VMC-LCD/WMB-4	eneo	Wall Bracket for LCD Monitors for 15 to 23“ TFT Monitor Series, Pan and Tiltable
not illustr.	**90395**	LCD-ST/P	eneo	Desktop Mount for LCD Monitor VMC-15/17/19, P Series
not illustr.	**90453**	VMC-LCD/8-10MP	eneo	Adapter Plate for Wall Bracket Fixing to VMC-8.4/10.4LCD-PT Series
not illustr.	**90449**	VMC-LCD/CMB-1	eneo	Ceiling Mount Bracket, Pan and Tiltable for LCD Monitors 19“ to 30“
not illustr.	**90396**	LCD-15P-RMK	eneo	19“ Kit for 15“ LCD Monitor (VMC-15P)
not illustr.	**90397**	LCD-17P-RMK	eneo	19“ Kit for 17“ LCD Monitor (VMC-17P)

Mounts for CRT Monitors

eneo W-71

Wall Mount Monitor Hanger for Monitor
410mm-690mm Height, 600mm-990mm Width

Art-No.: 20071

eneo D-71

Ceiling Mount Monitor Hanger for Monitor
410mm-690mm Height, 600mm-990mm Width

Art-No.: 20072

eneo WM-52/500

Wall Mount Monitor Hanger for Monitor
500mm Width, 270mm Depth

Art-No.: 20213

Overview Mounts for CRT Monitors

	Art-No.	Type	Brand	Monitor (Height/Width/Depth)	Mounting	Load Capacity	Material	Colour	Weight
	20071	W-71	eneo	410-690/600-990/–mm	Wall	75kg	Metal	black	17kg
not illustr.	**20011**	W-61	eneo	370-570/500-840/–mm	Wall	75kg	Metal	black	14kg
not illustr.	**20031**	W-41	eneo	280-470/330-550/–mm	Wall	75kg	Metal	black	13kg
not illustr.	**20051**	W-31	eneo	200-350/200-350/–mm	Wall	75kg	Metal	black	10.5kg
	20072	D-71	eneo	410-690/600-990/–mm	Ceiling	75kg	Metal	black	17kg
not illustr.	**20021**	D-61	eneo	370-570/500-840/–mm	Ceiling	75kg	Metal	black	14kg
not illustr.	**20041**	D-41	eneo	280-470/330-550/–mm	Ceiling	75kg	Metal	black	13kg
not illustr.	**20061**	D-31	eneo	200-350/200-350/–mm	Ceiling	75kg	Metal	black	10.5kg
	20213	WM-52/500	eneo	–/500/270mm	Wall	18kg	Metal	black	5.5kg
not illustr.	**20212**	WM-52/315	eneo	–/315/270mm	Wall	12kg	Metal	black	4.5kg
not illustr.	**20214**	WM-53	eneo	–/380-610/300mm	Wall	40kg	Metal	white	5.4kg

Accessories

Art-No.	Type	Description
20110	BD-1	Mounting Kit for D31/D41/D61/D71 Monitor Hanger
20070	BW-1	Mounting Kit for W31/W41/W61/W71 Monitor Hanger

eneo Zelaris_IP

Specifications

- Live display, recording, playback & alarm handling of different video sources and manufacturers
- Up to 64 local inputs for digital video sources
- Up to 25 different video sources on one screen
- Motion Detection for each channel individual
- Supports PTZ functionality and contact outputs (depending on hardware source)
- Recording format MJPEG (external back up possible)
- Different update rates from 1ips/sec. up to 25ips/sec. individual adjustable for each channel
- System Logs and archiving reports, supports SQL-data archive
- Supports multiple monitor applications
- Optional integration of site maps (optional)
- Optional server-/client structure for up to 64 video server with up to 64 individual video sources
- Optional interface OPC-DA 2 for system integration in building management solutions

System Requirements

PC Platform Windows 2000, Windows XP. CPU at least 2 GHz, 256 MB RAM. Hard disk capacity dependant upon requirements. High-performance graphics card recommended.

Video Systems Currently Supported

AXIS, eneo, JVC, JPEG general, MJPEG Netscape compatible, MOBOTIX, Panasonic, SONY

For network based video systems

eneo now delivers Zelaris_IP, a new software solution used for management, control and recording of different systems on one screen. Zelaris_IP is structured in the same way as a video matrix and offers up to 64 inputs and 25 outputs. Each input can be assigned to an IP-based video source and configured for resolution, quality and frame rate. Functionalities such a pan/tilt control along with digital inputs and outputs are also supported for various products. Each channel has a highly available and crash-resistant image memory for recording video signals, which allows specific records to be stored externally on freely configurable hard disks or data servers. The 25 outputs are organised as freely positionable video windows, to which video signals are freely assigned by the user or events. Automatic picture display is triggered by different events such as contact inputs, motion detection or even by an external system by using the optionally available OPC-interface. Events are stored in an internal alarm list or on external database servers. Each alarm is linked to a stored video sequence which is replayed directly when the alarm message is selected. eneo Zelaris_IP can be enlarged to be a client/server-based solution for use in large surveillance systems.

Overview Zelaris Management Software

Art-No.	Type	Description
76011	ZELARIS AC S	Surveillance Software for Network Cameras from eneo, Axis
76012	ZELARIS AC C	Client Software for Zelaris_AC S
76001	ZELARIS V8	Video management software for up to 8 different network cameras/encoder for small to middle size applications, displaying, recording, alarm handling, motion controlling and playback of recorded images
76002	ZELARIS V16	Video management software for up to 16 different network cameras/encoder for small to middle size applications, displaying, recording, alarm handling, motion controlling and playback of recorded images
76003	ZELARIS VC	Video management software for network cameras/encoder integrated matrix functionality for up to 64 video inputs to 25 video outputs. Interface for SQL-data archive. Displaying, recording, alarm handling, motion controlling and playback of recorded images. Up to 80 different preconfigured multi screen designs possible
76004	ZELARIS S8	Video management software with integrated server license for up to 8 different network cameras/encoder only in combination with Zelaris video client
76005	ZELARIS S8E	Extension software for Zelaris Server 8 with integrated server license for additional 8 camera/encoder only in combination with Zelaris Server 8
76006	ZELARIS S64	Video management software for network cameras/encoder with integrated license for up to 64 sources only in combination with Zelaris video client server
76007	ZELARIS MA	System extension for Zelaris Server and Video Client for displaying of maps and 1 interface for automation systems
76008	ZELARIS MA PRO	System extension for Zelaris Server and Video Client for displaying of maps and 1 interface for automation systems (unlimited version for integration of OPC sub systems

Power Supplies, Connector Boxes, Component Cables

eneo VT-PS12DC-6

Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. Open Ends

Art-No.: 70448

eneo NE-128

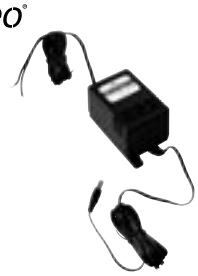
Voltage supply unit 230V/24VAC-5A, IP66

Art-No.: 70449

eneo NE-123

Voltage supply unit 230V/24VAC-2A, IP66

Art-No.: 70445



eneo VT-PS12DCDT

PSU 12VDC/0,5A, Regulated, Desktop Version, 1.8m Cable each w. open ends

Art-No.: 77772

eneo AK-2

Camera Connection Box for Standard and Ethernet Cameras

Art-No.: 70456

eneo MAK-1

Cabel Connection Box for Pole Mount

Art-No.: 70455

Overview Power Supplies & Connector Boxes

	Art-No.	Type	Description
	70448	VT-PS12DC-6	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, w. Open Ends
not illustr.	70447	VT-PS12DC-5	Plug-in Power Supply Unit 100-240VAC 12VDC (1.0Amp), Regulated, with DC Plug
	70449	NE-128	Voltage supply unit 230V/24VAC-5A, IP66
	70445	NE-123	Voltage supply unit 230V/24VAC-2A, IP66
not illustr.	77779	VT-PS12DC-UK	Plug-in Power Supply Unit 230VAC/12VDC, 500mA, Regulated, with Open Ends
	77772	VT-PS12DCDT	PSU 12VDC/0,5A, Regulated, Desktop Version, 1.8m Cable each w. open ends
not illustr.	70454	AK-1	Camera Connection box, 230VAC Input 24VAC-80W, 12VDC-1A Output
	70456	AK-2	Camera Connection Box for Standard and Ethernet Cameras
	70455	MAK-1	Cabel Connection Box for Pole Mount

Overview Audio/Video System & Component Cables

	Art-No.	Type	Description
not illustr.	87404	MCAB-1	Camera/VPT Connecting Cable for Video, Mains, RS-Control and Ethernet, 1 Meter

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For your Notes

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General Terms and Conditions of VIDEOR TECHNICAL E. Hartig GmbH

- as of 1 January 2002

1. General

1.1 The below-listed general terms and conditions of Videor Technical E. Hartig GmbH (hereinafter VTEH) apply to business transactions with VTEH if the party ordering is an entrepreneur as defined by Art. 14, BGB (German Civil Code) or a legal entity or separate estate under public law.

1.2 The party ordering is bound to his/her offer of contract for 3 weeks.

1.3 The contract will come into effect when VTEH confirms acceptance thereof in writing or effects performance or delivery within the deadline.

1.4 VTEH reserves its exploitation rights without restriction on all proprietary and copyrighted cost estimates, drawings and other documents (hereinafter referred to as documentation). The documentation may only be made accessible to third parties with the prior consent of VTEH and must be returned to VTEH without delay on request if VTEH is not granted the contract.

1.5 The party ordering has the non-exclusive right to use standard software with the agreed performance characteristics in unaltered form on the agreed hardware. The party ordering is entitled to make back-up copies without any explicit agreement to this effect.

1.6 All agreements, collateral agreements, provisos, amendments and supplements to the contract must be recorded in writing in the interest of conservation of evidence.

2. Prices

2.1 Prices are subject to change unless fixed prices have been agreed. The VTEH prices valid on the day of delivery or performance in accordance with the VTEH price lists shall apply ex VTEH delivery stores.

2.2 All prices are without discounts or any other deductions plus value-added tax at the rate valid on the date of delivery or performance.

2.3 The costs of packaging, loading and shipping from the VTEH delivery stores are at the expense of the party ordering. When delivering goods upon which duty has not been paid, the party ordering must pay the charges levied by the customs authorities and any related costs.

3. Terms of Payment

3.1 With the exception of agreements made expressly to the contrary, payment is always due at the latest when the purchased items are picked up or, in the event of shipment, when they are handed over to the freight forwarder or carrier.

3.2 All payments must be made in cash without any deductions at a VTEH paying office. Only VTEH cash desks are entitled to take receipt of money. Any credit transfers may only be made to accounts held by VTEH. VTEH sales personnel do not have collection authority.

3.3 VTEH reserves the right to refuse bills of exchange or cheques. Bills of exchange or cheques will only be accepted by way of payment and without any guarantee of punctual submission or timely protest. All cheque and bill of exchange fees and costs are at the expense of the party ordering and are due for immediate payment to VTEH.

3.4 If the party ordering is in default of all or parts of his/her payments and if mature bills of exchange in particular are not honoured in time or cheques not cashed upon presentation, VTEH can accelerate maturity of all claims arising from the business relationship with advance notice of one week. This also applies to bills of exchange with later maturity. All demands for payment made by VTEH which arise from the business relationship will become due for immediate payment without advance notice if the party ordering discontinues his/her payments or if an application is made to open insolvency proceedings against his /her assets.

3.5 The party ordering has no rights of offsetting or retention unless his/her counter-claims have not been contested by VTEH or established finally and absolutely.

4. Delivery – Delayed Delivery

4.1 In the interest of conservation of evidence, delivery times and deadlines must be agreed to in writing. With the exception of agreements made expressly to the contrary, all details of delivery times and deadlines are non-binding only and are subject to the proviso of complete and prompt delivery to VTEH by advance suppliers.

4.2 If delivery times and deadlines which have been agreed in a non-binding manner are exceeded by more than 6 weeks, the party ordering can demand in writing that VTEH make delivery within an appropriate space of time. VTEH will be considered to be in default once the deadline set in this way has expired without performance.
VTEH can only be held liable for damage due to delays to the extent outlined in Section 9, below.

4.3 The prerequisite for VTEH's compliance with dates and deadlines is correct and punctual fulfillment of all obligations by the party ordering. This includes in particular compliance with the agreed terms of payment and the timely receipt of all documentation, any necessary licenses and the release authorization of plans in particular to be delivered by the party ordering.

4.4 Partial deliveries by VTEH are permissible as long as they can be reasonably expected of the party ordering.

4.5 Instances of force majeure entitle VTEH to postpone delivery for the duration of the obstruction plus an appropriate restart period. If it becomes unreasonable for either party to fulfil the contract, that party may withdraw from the contract to that extent. Force majeur is considered to be all circumstances which make it considerably more difficult or impossible for VTEH to make delivery, such as currency, trading policy or other sovereign measures, strikes, lock outs, operational disturbances (e.g. fire, mechanical breakdown, raw material or energy shortages) as well as transport route obstructions, irrespective of whether these circumstances occur at VTEH, a supplier's plant or a VTEH subcontractor.

4.6 The right is reserved by the manufacturer to make alterations to the construction, shape, colour shade and scope of delivery throughout the delivery period, provided that the purchased item is not significantly altered and the alterations can be accepted as reasonable by the party ordering. No rights can be asserted against VTEH for the use of type codes or numbers for the purchased item.

5. Acceptance/Shipment – Transfer of Risk

5.1 The party ordering is obliged to make acceptance of the purchased item within 8 days of receipt of notification of availability or a shipping order. Shipment is made in the name, at the expense and at the risk of the party ordering. VTEH is entitled to charge flat-rate freight costs to cover freight expenses.

5.2 If the party ordering fails to make acceptance of the purchased item within 2 weeks of receipt of notification of availability, VTEH can set the party ordering a deadline of 8 days in writing. Once this deadline has expired without action, VTEH is entitled to withdraw from the purchase contract by means of a written declaration to this effect and/or claim damages in place of performance. If VTEH claims damages in place of performance, this will amount to 20 % of the purchase price. Both parties reserve the right to provide evidence of major or minor damage.

5.3 If the purchased item is to be shipped and no agreements to the contrary have been made, it is left over to VTEH to select the transport mode and route. If the wrong selection is made, VTEH can only be held liable to the extent outlined in Section 9, below.

5.4 VTEH is entitled but not obliged to take out transport insurance on behalf and for the account of the party ordering unless the party ordering contradicts insurance of this kind.

5.5 The risk, including that of accidental loss or deterioration of the purchased item, is transferred from VTEH to the party ordering upon expiry of the availability deadline or, if shipped, as soon as the purchased item is delivered to the freight forwarder or carrier, but at the latest as soon as it leaves the VTEH delivery store, irrespective of whether shipment is made from the place of performance or freight paid.

5.6 The party ordering is not entitled to refuse receipt of the purchased item due to irrelevant defects.

6. Retention of Title

6.1 The delivered goods (hereinafter referred to as reserved goods) will remain the property of VTEH until complete payment of the purchase price has been made and all other claims made by VTEH in connection with the transaction (e.g. bill of exchange costs, financing costs, interest, repair and conversion costs) have been settled.

6.2 For VTEH, as the manufacturer as defined by Art. 950, BGB, the handling and processing of the reserved goods does not put VTEH under any obligation. If the party ordering processes the goods along with other goods that do not belong to VTEH, VTEH is entitled to co-ownership of the manufactured object in the ratio of the invoice value of the processed reserved goods to the sum of the invoice values of all other goods used in the manufacturing process. If reserved goods are mixed or connected with other objects, thus bringing about the expiry of VTEH's ownership of the reserved goods (Arts. 947, 948, BGB), it is regarded as agreed even now that the party ordering's ownership share in the mixed item or uniform object will be passed on to VTEH to the extent of the invoice value of the reserved goods and that the party ordering will safeguard these goods for VTEH with the diligence of a prudent businessman.
The objects created through processing, connection or mixing are reserved goods as defined by these general terms and conditions.

6.3 For the duration of the retention of title, the sale, pledging, transfer of ownership by way of security, rental or other relinquishment of the reserved goods to third parties which might impair the security status of VTEH are only permitted with the advance, written consent of VTEH, as are the alteration, processing, mixing, connection or utilization of said goods.

6.4 The party ordering may only sell the reserved goods in the ordinary course of business. He/she herewith transfers to VTEH all claims against third parties arising from the further sale or other legal transactions which may affect the reserved goods in future, along with all ancillary rights and security interest in their total. VTEH accepts the transfer.
If the reserved goods are sold after being connected to, mixed with or processed with other goods not belonging to VTEH, transfer will only be to the extent of VTEH's co-ownership share in the item or stock sold. If the party ordering has a current account relationship with his/her buyer, the transfer will relate to the balance claim at the end of an accounting period.
If the reserved goods are used by the party ordering for the fulfillment of a contract for work and services or plant delivery contract, the claim arising from such a contract will be transferred in advance to VTEH to the same extent that it has been determined above for claims from further sale.
The party ordering is entitled to collect the claims transferred to VTEH in the ordinary course of business to the extent that he/she fulfils his/her contractual obligations towards VTEH. The party ordering is not entitled to transfer or sell the claim unless he or she receives the final and complete equivalent sum of the claim.

6.5 If the value of the securities that exist for VTEH exceeds not only temporarily the claims of VTEH by a total of more than 20%, VTEH will on demand release securities of their choice of corresponding value.

6.6 The party ordering is obliged to maintain reserved goods in an orderly condition for the duration of the retention of title. Any damage to the reserved goods caused or detected by the party ordering which occurred after the risk was transferred to him/her must be reported to VTEH in writing without delay.
Any repairs required during the retention of title must be coordinated with VTEH and made immediately at their request.

6.7 If the party ordering is in default of payment or he/she has not fulfilled his/her obligations in regard to the reserved goods in accordance with Section 6 of these terms and conditions, and if VTEH has withdrawn from the contract because of this violation, VTEH can demand the return of the reserved goods with the exclusion of all rights of retention. The right of VTEH to withdraw under the conditions defined in Art. 323, BGB and demand the return of the reserved goods extends to all purchased items still covered by retention of title by VTEH at the time of withdrawal.
The costs of returning and re-utilizing the reserved goods will be carried by the party ordering. The return and re-utilization costs are set individually without proof at 10 % of the re-utilization proceeds plus any VAT that may be due. The right is reserved to provide evidence of higher or lower return and re-utilization costs. The re-utilization proceeds and any down payments made on the purchase price will be offset against the claims of VTEH after deduction of all costs and other claims by VTEH connected with the purchase contract. The party ordering will be credited with any surpluses.

7. Liability for Material Defects

7.1 Contrary to the law, the limitation period for claims by the party ordering for material defects on newly manufactured movable items purchased from VTEH by the party ordering is one year from the start of the legal limitation period. This shortened limitation period will not apply in instances where human life is lost, physical injury occurs, health is damaged or where VTEH deliberately or negligently fails to comply with its duties or fraudulently conceals a defect.

7.2 If the party ordering asserts a claim for subsequent fulfillment on newly manufactured movable items due to a material defect, VTEH has the option of either repairing the defect or replacing the defective item with a non-defective item.

7.3 The party ordering is not entitled to claim for expenses required for the purpose of subsequent fulfillment – in particular, transport, road, labour and material costs – if the costs increase because the delivered object was moved subsequently to a place other than the party ordering's place of business, unless the removal complies with its intended purpose.

7.4 The sale of used removable items by VTEH to the party ordering is not subject to material defect liability of any kind. Any liability claims the party ordering may be asserting against VTEH in instances where human life has been lost, physical injury has occurred or health has been damaged or where VTEH has deliberately or negligently failed to comply with its duties or fraudulently concealed a defect are not affected by this.

7.5 The party ordering is obliged to report any material defects to VTEH in writing without delay.

8. IX Industrial Property Rights and Copyright; Defects of Title

8.1 Unless agreed otherwise, VTEH is only obliged to make delivery in the country in which the place of delivery is located free from any industrial property rights and copyright (hereinafter referred to as property rights) of any third parties. If a third party asserts any justified claims against the party ordering for infringement of property rights caused by any deliveries made by VTEH and used in accordance with the terms of contract, VTEH is liable to the party ordering as follows within the deadline set in Item 7.1:

8.1.1 At its own expense for the deliveries in question and as desired, VTEH will either obtain a right of use and amend it in such a way that the property rights are not infringed, or replace it. If it is not possible for VTEH to do so under appropriate conditions, the party ordering is entitled to make use of his/her legal rights of rescission or reduction.

8.1.2 Damage claims against VTEH for defects of title of this kind can only be asserted as outlined in Section 9.

8.1.3 The above-mentioned obligations of VTEH only exist if the party ordering notifies VTEH in writing and without delay of the claims being asserted by a third party and does not acknowledge an infringement, and if VTEH reserves the right to all defensive measures and compromise negotiations. If the party ordering discontinues utilization of the delivery to minimize damage or for other important reasons, he/she is obliged to inform the third party that discontinuation of utilization does not constitute acknowledgement of a property right infringement.

8.2 The party ordering is not entitled to make any claims if he/she is responsible for the property right infringement.

8.3 Claims by the party ordering are also not permitted if the property right infringement was caused by particular specifications given by the party ordering, an application that was not foreseeable by VTEH or by the fact that the delivery was altered by the party ordering or utilized together with other products not supplied by VTEH.

8.4 The provisions of Section 7 apply to all other defects of title.

8.5 Further reaching claims by the party ordering against VTEH and its vicarious agents or claims other than those outlined in this section for defects of title are precluded. Used movable items are sold by VTEH to the party ordering under exclusion of all defect of title liability.

9. Liability

9.1 In the event of intent or gross negligence, VTEH, its legal representatives or its vicarious agents will be held liable for all damage to the party ordering caused by VTEH irrespective of the legal ground but in particular due to infringement of duties from the obligation and unlawful acts and for reimbursement of expenses in accordance with Art. 284 BGB.
In the event of the grossly negligent infringement of non-essential contractual obligations by simple vicarious agents, VTEH may only be held liable for typical damage that was foreseeable at the time the contract was signed.
In the event of slight negligence, VTEH, its legal representatives or vicarious agents will only be held liable if the damage was caused by an infringement of essential contractual obligations and only for typical damage that was foreseeable at the time the contract was signed. VTEH may not be held liable in all other instances of slight negligence.

9.2 VTEH is liable without restriction in all instances where VTEH is responsible for the loss of human life, causing physical injury or damaging health.

9.3 The personal liability of the legal representatives, vicarious agents and company employees of VTEH for damage caused by them through slight negligence is excluded.

9.4. In the event of fraudulent concealment of a defect, the acceptance of a warranty or procurement risk or in accordance with the product liability law, the liability of VTEH will remain unaffected irrespective of any fault.

9.5 All damage claims by the party ordering, irrespective of the legal ground but in particular those due to unlawful acts and possible claims for reimbursement of expenses in accordance with Art. 284, BGB, fall under the statute of limitations with the expiry of the limitation deadline applicable to material damage claims in accordance with Section 7. The legal limitation regulations will apply in instances where life has been lost, physical damage has occurred or health has been impaired, in the event of intent or gross negligence and with damage claims in accordance with the product liability law.

9.6 The party ordering is obliged to record in writing and without delay any damage claims for which VTEH is to be held responsible or have them recorded by a VTEH representative.

10. Place of Fulfillment, Point of Delivery, Place of Jurisdiction, Assignment and Return of Packaging

10.1 The place of fulfillment is Rödermark.

10.2 The law of the Federal Republic of Germany applies. The application of UN commercial law (United Nations Convention on Contracts for the International Sale of Goods [CISG]) is excluded.

10.3 It is agreed that Frankfurt am Main shall be the exclusive place of jurisdiction for all disputes arising from the business relationship, including those arising from bill of exchange or cheque issues.

10.4 The assignment of claims against VTEH requires the advance written consent of VTEH.

1. Your Contacts

Our Sales Team can be contacted under the following extensions:
Fax +49 6074 / 888 - 166 ·Telephone +49 6074 / 888 -

Anne Drischel-Benz (Ex)	-131	Louise McLean (UK)	-285
Samuel Glenn Carle (UK)	-284	Julia Reynolds (Ex)	-163
Simone Enzmann	-164	Nadège Rigual (Fr)	-253
Thomas Geiger	-161	Hans-Peter Roth	-191
Ulrike Kämmler-Büttner (Ex)	-262	Sabine Schwinn (Ex)	-178
Dirk Leinweber	-281	Thorsten Wallerius	-153

2. Pricelists

- You can download price lists in Excel and PDF format in seconds from our website. For net or gross prices. The price lists will be generated online for you. Fully up-to-date. Nothing could be easier.
- You no longer have to calculate your prices yourself using the quotation sheet. You see your personal purchase price directly next to the product. If you want to pass on list prices to your customers simply download the gross price list.
- For new costumers: On our website got to > Contact > Become a partner. You can download the Partner Registration Form here. Print it out, complete it including a signature and send it back to us. Please telephone our Authorisation Team on +49 6074/880-350 if you have any questions.

3. Return procedure

Step 1
Only in case of transport damages: Very important!
- Report the damage to the delivery company immediately. If you do not do this your insurance coverage will become invalid.
- If the delivery company does not want to check the damage you can return the damaged goods to Videor Technical. (cf. step 2)

Step 2
- Please contact us for an RMA No. for your return: Tel. No. 0870 7749944
- Please note that returns without an RMA No. cannot be processed and will be sent back to you.
- The issued RMA No. applies for a period of 14 days.

Step 3
- You can find RMA form on our website at www.videortechnical.com/rma/en
- Enter the RMA No. in the respective field on the RMA form and fill in the form completely.
- Please state the number for the return reason on the form and give a detailed description in case of repairs, modifications or transport damages.

Step 4
- Include a completed RMA form with your return consignment, together with a copy of the delivery note or invoice.
- Write the RMA No. on the outside of the package. Please do not write the RMA No. on the original product packaging.
- The goods must be properly packaged.
- Send the package carriage paid to the address that you can find on the back of this catalogue.

PROFESSIONAL DISTRIBUTION

Available through specialised trade channels only

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